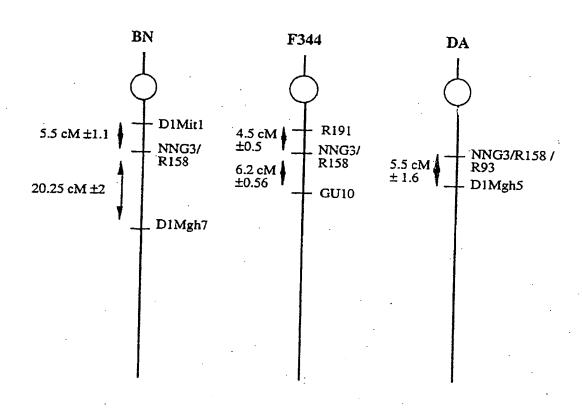
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| | -140 | -130 | -120 | -110 | -100 | -90 | |
|----------------------------|---------|------------------------|--|----------------|------------------|--|----------------|
| Contig | ! | | 1 | 1 | 1 | 1 | |
| rat mRNA | TGCTT | TCTGCCCTGC | GCTGCGCACC | STTAGTGCC | TGCCCTGTCC | TTCCGATC? | CAGAG |
| 113/114 NNG3 | TGCTT | TCTGCCCTGC | GCTGCGCACC | STTAGTGCCC | TGCCCCTGTCC | TTCCGATCT | CAGAG |
| 113/114 NNG3 | | | | | | | |
| 110/114 115 | -80 | 7.0 | | | | | |
| • | -80 | -70 | -60 | -50 | -40 | -30 | |
| Contig | TCTCC | | | 1 | 1 | 1 | |
| rat mRNA | TCTGC | GGAGTGCCCC | PATCGCCGTCC | ACCTGTTTC | CTCAGAAAAA | GGCCAGCTC | GTGAT |
| 113/114 NNG3 | TCTGC | GGAGTGCCCCT | PATCGCCGTCC | ACCTGTTTC | CTCAGAAAAA | GGCCAGCTC | GTGAT |
| 113/114 AS | | | | | | | |
| , 165 | -20 | -10 | | | | | |
| | - 20 | -10. | 1 | 10 | 20 | 30 | |
| Contig | CCCTCC | | | | 1 | . | |
| rat mRNA | CCCTGC | TGCGTTCCTG | -GGGCC <u>ATG</u> GC | GGGTCTGGG | TCCTGGCGGGG | GCGACTCAG | AAGGG |
| | CCCIG | TGCGTTCCTG | eeecc <u>yre</u> ec | GGGTCTGGG | TCCTGGCGGGG | GCGACTCAG | AAGGG |
| 113/114 NNG3 | | | Star | t Codor | n | | |
| 113/114 AS | | | | | | | |
| • | 40 | 50 | 60 | 70 | 80 . | 90 | |
| Comtin | 1 | | 1 | i | ļ | 1 | • |
| Contig | GGACCC | CGACCCCTGT | TTTGCAGAAA | GGGGGCGCT | GAGGCAGAAGG! | TGGTCCACG | AGGTG |
| rat mRNA 113/114 NNG3 | GGACCC | CGACCCCTGT | TTTGCAGAAA | GGGGGCGCT | GAGGCAGAAGG: | IGGTCCACG! | AGGTG |
| 113/114 NNG3 113/114 AS | | | | | | | |
| 113/114 AS | 100 | 110 | | | | | |
| | 100 | 110 | 120 | 130 | 140 | 150 | |
| Contig | 776766 | (C) (C) 2 CMMC2 | | 1 | • 1 | ı | |
| rat mRNA | AAGAGC | CACAAGTTCA | CCGCTCGTTT | CTTCAAGCA | CCAACCTTCT(| SCAGTCACT (| STACC |
| 113/114 NNG3 | AAGAGC | CACAAGTTCA | CCGCTCGTTT | CTTCAAGCA | CCAACCTTCTC | CAGTCACTO | TACC |
| 113/114 AS | | | | | | | |
| | 160 | 170 | 180 | 100 | | | |
| | 1. | 1 | 1 | 190 | 200 | 210 | |
| Contig | | | | I CCCCTTCCD | \TGTCAAGTCTG | ! | |
| rat mRNA | GACTTC | ATCTGGGGCA' | TTGGAAAGCA | GCCCTGCAD | TGTCAAGTCTG | CAGCTTTGT | GGTT |
| 113/114 NNG3 | | | | JOCC I GCAP | TGTCAAGTCTG | CAGCTTTGT | GGTT |
| 113/114 As | | | | | | | |
| | 220 | 230 . | 240 | 250 | 260 | 270 | • |
| | 1 | 1 | ı | 1 | 1 | t t | |
| Contig | CACCGC | CGATGCCACG | ATTTGTGACO | TTCGAGTGT | CCAGGCGCTGG | AAAGGGCCC | CCAG |
| rat mRNA | CACCGC | CGATGCCACG | ATTTGTGACC | TTCGAGTGT | CCAGGCGCTGG | AAAGGGCCC | CCAG |
| 113/114 NNG3 | | | | | | | Curo |
| 113/114 As | | | | | | • | |
| | 280 | 290 | 300 | 310 | 320 | 330 | |
| Contig | 3 0000 | | 1 | 1 | 1 | 1 | |
| rat mRNA | ACGGACC | ACCCTCGCAA | CAAGCACAAG | TTCCGTCTG | CACAGCTACAG | CAGTCCCAC | CTTC |
| 113/114 NNG3 | ACGGAC | ACCUTUGUAA | CAAGCACAAG | TTCCGTCTG | CACAGCTACAG | CAGTCCCAC | CTTC |
| 113/114 AS | | | | | | • | |
| | 340 | 350 | 360 | 270 | | | |
| | . 1 | 330 | 360 | 370 | 380 | 390 | |
| Contig | TGCGACC | ו 'ארייהייהרייהריים | CCTCCTCTA C | · | | 1 | |
| rat mRNA | TGCGACC | ACTGTGGTTC | CCTCCTCTAC | CCCCCCCC | CACCAGGGCAT | GAAATGTTC | CTGT |
| 113/114 NNG3 | | 010100110 | CCICCICIAC | GGGCTGGTG | CACCAGGGCAT | GAAATGTTC | CTGT |
| 113/114 AS | | | | | | | |
| | 400 | 410 | 420 | 430 | 440 | 450 | |
| | 1 | 1 | 1 | 130 | 440 J | 450 | |
| Contig | TGCGAAA | TGAATGTGCA | CCGACGCTGT | TGCGCAGC | TGCCCTCCCT | | |
| rat mRNA | TGCGAAA | TGAATGTGCA | CCGACGCTGT | GTGCGCAGC | STGCCCTCCCT | TTGCGGCGT | GAC |
| 113/114 NNG3 | | | -,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,- | OICCCAGC | arecciccit. | TTGCGGCGT | GGAC |
| 113/114 AS | | | | | | | |
| | 460 | 470 | 480 | 490 | 500 | 510 | |
| | 1 | 1 | 1 | 1 | t | 1 | |
| Contig | CATACAG | AGCGCCGTGG; | ACGTCTGCAA | TGGAAATCC | GGGCTCCCAC | TCDGDTGDG | - ከ ጥ <i>ር</i> |
| cat mRNA | CATACAG | AGCGCCGTGG | ACGTCTGCAA | TGGAAATC | GGGCTCCCAC | ₹₩₽₽₽₽₩₽₩₽ ₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽ | MIC |
| 113/114 NNG3 | | | | | | ~UGMI GWG | MIC |
| 13/114 AS | | | | | | | |

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| | 520 | 530 | 540 | 550 | 560 | 570 | |
|------------------|---------|----------------------|-------------|-----------------------|------------------------------------|----------------------------|------------|
| Contig | Camam | | | | | ł | |
| - | CATAT | TACTGTGGGT | GAGGCCCGGA | ACCTCATTCC | TATGGACCCC | AATGGCCTGTC | TGA' |
| rat mRNA | CATAT | TACTGTGGGT | GAGGCCCGGA | ACCTCATTCC: | TATGGACCCC | AATGGCCTGTC | TGA! |
| 113/114 NNG3 | | | | | | | * * |
| 113/114 AS Proof | | | | | | | |
| | 580 | 590 | 600 | 610 | 620 | 630 | |
| | ł | ı | 1 | l | 1 | ! | |
| Contig | CCCTA | FGTGAAACTG | AAGCTCATCC | CGGACCCTCG | FAACCTGACA | AACAGAAGAC | AAA |
| rat mRNA | CCCTA | rgtgaaactg <i>i</i> | AAGCTCATCC | CGGACCCTCG | SAACCTGACAZ | AACAGAAGAC | AAAC |
| 113/114 NNG3 | | | | | | | |
| 113/114 AS | | | | | | | |
| | 640 | 650 | 660 | 670 | 680 | 690 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | |
| Contig | ACCGTO | EAAAGCCACAC | TGAATCCCG | IGTGGAACGA | ACCTTCGTGT | TCAACCTGAA | GCC |
| rat mRNA | ACCGTO | FAAAGCCACAC | TGAATCCCG | rgtggaacgao | ACCTTCGTGT | TCAACCTGAA | GCC |
| 113/114 NNG3 | | | | | | | |
| 113/114 AS | | | | | | | |
| | 700 | 710 | 720 | 730 | 740 | 750 | |
| •• | f | j | 1 . | . 1 | 1 | ,,,, | |
| Contig . | GGGGAT | GTGGAGCGCC | GGCTCAGTGT | GGAGGTGTGG | GATTGGGATA | GGACATCCCG | . א א מ |
| rat mRNA | GGGGAI | GTGGAGCGCC | GGCTCAGTGT | GGAGGTGTGG | GATTGGGATA | GGACATCCCG | מממב. |
| 113/114 NNG3 | | | | | | | VVV1 |
| 113/114 AS | | | | | | | |
| | 760 | 770 | 780 | 790 | 800 | 810 | |
| | 1 | İ | i | 1 | 1 | 0.10 | |
| Contig | GACTTO | ATGGGTGCCA | TGTCCTTTGG | TGTCTCAGAG | יי ייר א א כייר א א כיכ | CTCCTGTGGA | TCC N |
| rat mRNA | GACTTC | ATGGGTGCCA | TGTCCTTTGG | TGTCTCAGAG | CTACTCAACC | CTCCTGTGGA CTCCTGTGGA | TGGA |
| 113/114 NNG3 | | | | | orner cando | CICCIGIGGA | IGGA |
| 113/114 AS | | | | | | | |
| | 820 | 830 | 840 | 850 | 860 | 870 | |
| | 1 | ì | 1 | 1 | 1 | 670 | |
| Contig | TGGTA | CAAGTTACTG | AACCAGKAGG | AGGGCGAGTA | ጥጥ እ ር እ አጥር ጥ አ | CCGGTGGCCG | 3 mcc |
| rat mRNA | TGGTA | CAAGTTACTG | AACCAGGAGG | AGGGCGAGTA | TTDCDATGIA | CCGGTGGCCG | MIGC |
| 113/114 NNG3 | A | CAAGTTACTG | AACCAGUAGG | AGGGCCGAGTA | ጥጥ እ ሮ አ አ ጥር ጥ አ | CCGGTGGCCG | AIGC |
| 113/114 AS | A | CAAGTTACTG | AACCAGGAGG | AGGGCGAGTA | TTACAATGIA | CCGGTGGCCG | AIGC |
| | - | | | ROOCCROIN | TINCANIGIA | cceeteecce | MIGC |
| | 880 | 890 | 900 | 910 | 920 | 930 | |
| • | 1 | 1 | Ī | 1 | 1 | 330 | |
| Contig | TGACAA | CTGCAGCCTC | | | י יים איזיייאר כרריי | , TTGGAATTGT | |
| rat mRNA | TGACAA | CTGCAGCCTC | CTCCAGAAGT | TTGAGGCCTG | TAATTACCCC | TTGGAATTGT | ሊተርአ የተ |
| 113/114 NNG3 | TGACAA | CTGCAGCCTC | CTCCAGAAGT | TTGAGGCCTG | TAATTACCCC | TTGGAATTGT/ | ATGA. |
| 113/114 AS | TGACAA | CTGCAGCCTC | CTCCAGAAGT | TTGAGGCCTG | TAATTACCCC | TTGGAATTGT | ሊፐ GW |
| | | | | | | 1100AA11G1A | AI GA |
| | 940 | 950 | 960 | 970 | 980 | 990 | |
| | 1 | i | . 1 | 1 | 1 | . 990 | |
| Contig | GAGAGT | GCGGATGGGC | CCCTCTTCCT | CTCCCATTCC | ጥጥርጥርር እጥርር! ' | CCCAGTCCCAC | |
| rat mRNA | GAGAGT | GCGGATGGGC | CCCTCTTCCT | CTCCCATTCC | アアCアCCAでCC | CCAGTCCCAC | CCA |
| 113/114 NNG3 | GAGAGT | GCGGATGGGC | CCCTCTTCCT | CTCCCATTCC | エエピエピに入工にとい ででででここをでこった。 | CCCAGTCCCAC | CCA |
| 113/114 AS | GAGAGT | GCGGATGGGC | CCCTCTTCCT | CTCCCATTCC | TTCTCCATCC | CCAGTCCCAC | CGGA |
| | | | | CICCUMITCC | TICICCATCC | CCAGICCCAC | JGGA |
| | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | |
| | 1 | 1 | 1 | 1 | 1040 | 1050 | |
| Contig | | | | | | I CTGACTTCAG | |
| cat mRNA | CTCCAA | CACATCCTTC | TTCGGTGCCA | CCCCAGGACG | CCTGCATATC | rctgacticae rctgacticae | CTT |
| 113/114 NNG3 | CTCCAA | 23 C 3 T C C T T C . | TTCGGTGCCA | CCCCACCACC | CCTGCATATC | rctgacttcac rctgacttcac | CTT |
| 113/114 AS | CTCCAA | CACATCCTTC. | PTCCCTCCCA | CCCCAGGACG | CCTGCATATC | TCTGACTTCAC | CTT |
| , , | O. COMM | -nontocttc | 1 TCGGTGCCA | GCCAGGACG | CUTGUATATC | CTGACTTCAG | CTT |
| | 1060 | 1070 | 1000 | 1000 | 1100 | | |
| | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | |
| Contig | | | | , , | | I | |
| at mRNA | CCTCATO | TOTALGG | AAAGGCAGTT | TTGGGAAGGT | ATGCTGGCA | ARCGCAGAGG | ATC |
| 13/114 NNG3 | CCTCATO | GTTCTAGGG/ | AAAGGCAGTT' | TTGGGAAGGT | JATGCTGGCA(| AGCGCAGAGG | ATC |
| 13/114 NNG3 | CCTCATO | -GTTCTAGGG/ | AAAGGCAGTT | TTGGGAAGGT | GATGCTGGCA | AGCGCAGAGG | ATC |
| / III M | CCTCATO | -GTTCTAGGG/ | \AAGGCAGTT' | l'TGGGAAGG T (| GATGCTGGCA | SAACGCAGAGG | ATC |

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| | 1120 | . 1130 | 1140 | 1150 | 1160 | 1170 | |
|--------------------------|-------------|----------------------------|--------------------------|----------------------------|---------------------------|------------------------------|------------|
| Contig | | I AACTCTATGC | ן ראיזירא א האיזיאי | (TC222222 | 3570377 | ا CCAGGATGATGA | |
| rat mRNA | CGATG | AACTCTATGC | CATCAAGAIN | CIGAAAAAAGA | CCTCATTGT | CCAGGATGATGA CCAGGATGATGA | 'IG |
| 113/114 NNG3 | CGATG | AACTCTATGC | CATCAAGATA | CTGAAAAAA | CGICALIGI | CAGGATGATGA | .TG |
| 113/114 AS | CGATG | AACTCTATGC | CATCAAGATN | CTGAAAAAA | | | |
| | 1100 | | | | | | |
| | 1180 | 1190 | 1200 | 1210 | 1220 | 1230 | |
| Contig |) AGACTI | | | | 1 | 1 | |
| rat mRNA | AGACT | SCACCCTIGIC SCACCCTTGTG | CAGAAAGCGT | GTGCTGGCATT | GGGAGGCCG/ | AGGTCCTGGAGG AGGTCCTGGAGG | CCC |
| 113/114 NNG3 | | | ONGMAGCG1 | 31GC1GGCATT | GGGAGGCCG | AGGTCCTGGAGG | CCC |
| 113/114 AS | | | | | | | |
| | 1240 | 1250 | 1260 | 1270 | 1280 | 1290 | |
| | 1 | i i | 1 | 1 | Ī | 1 | |
| Contig | GCCAC | ACTTTCTCACA | CAACTTCAT | ICCACCTTTCA | GACTCCGGAC | CGCCTGTATTT | TGI |
| rat mRNA 113/114 NNG3 | GCCAC | ACTTTCTCACA | CAACTTCAT | CCACCTTTCA | GACTCCGGAC | CGCCTGTATTT | TGI |
| 113/114 ANGS | | | | | | | |
| | 1300 | 1310 | 1320 | 1330 | 1340 | 1250 | |
| | Ī | 1 | 1 | 1330 | 1340 | 1350 | |
| Contig | GATGG | GTACGTCACT | GGGGGCGATT | TAATGTACCA | I CATTCAGCAA | l .CTGGGCAAGTT | ת מיד |
| rat mRNA | GATGG | GTACGTCACT | GGGGGCGATT | TAATGTACCA | CATTCAGCAA | CTGGGCAAGTT' | ኮልክ ኒሌሊ |
| 113/114 NNG3 | | | | | | | |
| 113/114 As | 1360 | 1070 | | | | | |
| | 1360 | 1370 | 1380 | 1390 | 1400 | 1410 | |
| Contig | GGAGCC | | ן יייריז אייכרים | | | TTCTTCCTTCAC | |
| rat mRNA | GGAGCC | CCACGCAGCA | TTCTATGCCG | CGGAAATCGC | ATAGGCCTC | TTCTTCCTTCAC TTCTTCCTTCAC | :AA |
| 113/114 NNG3 | | | | | 211110000010 | 11C11CC11CA(| -AA |
| 113/114 As | | | | | | | |
| | 1420 | 1430 | 1440 | 1450 | 1460 | 1470 | |
| Contig | | | } |) 3.CMMCG3.m3.3.n | ! | 1 | |
| rat mRNA | CCAGGG | CATCATCTAC | AGGGACCICA AGGGACCTCA | AGTTGGATAAT AGTTGGATAAT | GTGATGCTG | GATGCTGAAGGA GATGCTGAAGGA | CA |
| 113/114 NNG3 | | | 100011001001 | AGIIGGAIAA | GIGAIGCIG | GATGCTGAAGGA | ,CA |
| 113/114 AS | | | | | | | |
| | 1400 | | | | | | |
| | 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | |
| Contig | CATCAA | ו GATCACAGACT | የጥሮራራር እ ጥርጥ | | . CEICERECCOM | GGTCCACAACC | |
| rat mRNA | CATCAA | GATCACAGACT | TCGGCATGT | GTAAAGAGAAI | GICTICCCT | SGGTCCACAACC SGGTCCACAACC | CG |
| 113/114 NNG3 | | | | | 010110001 | 3001CCACAACC | CG |
| 113/114 AS | | | | | | | |
| | 1540 | 1550 | 1560 | 1570 | 1580 | 1590 | |
| Contig | | | | | ı | 1 | |
| rat mRNA | CACCITI | CTGTGGGACCC | CAGACTACA | PAGCACCTGAG | ATCATTGCC | PATCAGCCCTAT | GG |
| 113/114 NNG3 | GACCII. | CIGIOGOACCC | CAGACTACA | PAGCACCTGAG | ATCATTGCCT | PATCAGCCCTAT | GG |
| 113/114 AS | | | | • | | | |
| j. | 1600 | 1610 | 1620 | 1630 | 1640 | 1650 | |
| G-mail: | 1 | 1 | f | ı | 1 | t | |
| Contig rat mRNA | GAAGTC | rgtcgactggt | GGTCCTTTG | SAGTCCTGCTG | TATGAGATGT | TGGCAGGACAG | CC |
| 113/114 NNG3 | GAAGTC | rgtcgactggt | GGTCCTTTG | SAGTCCTGCTG | TATGAGATGI | TGGCAGGACAG | CC |
| 113/114 AS | | | | | | | |
| | 1660 | 1670 | 1680 | 1690 | 1700 | 1710 | |
| | 1 | 1 | 1 | 1 | 1 | 1710 | |
| Contig | ACCCTT | GATGGGGAAG | ATGAGGAGG | GCTGTTTCAA | GCCATCATCG | A A C A A A CTCTC | ٥. |
| rat mRNA | ACCCTT | GATGGGGAAG | ATGAGGAGG | GCTGTTTCAA | GCCATCATGG | AACAAACTGTC | AC |
| 113/114 NNG3 | | | | | | | |
| 113/114 AS | 1720 | 1724 | 1240 | | | | |
| | 1720 | 1730 ! | 1740 | 1750 | 1760 | 1770 | |
| Contig | | | ا دددوده <i>ه</i> ود | ן יתפינפבר בא יתרי | | TCCTGACCAAG(| |
| rat mRNA | CTATCCC | AAGTCACTTT | CCCGGGAAGC | TGTGGCCATC | i GCAAGGGGT TGCAAGGGGT | TCCTGACCAAG(TCCTGACCAAG(| .A |
| 113/114 NNG3 | | | | - JIOGGGAIG | nnooce1 | I CCI GACCAAGO | _A |
| 113/114 AS | | | | | | | |

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| | 1780 | 1790 | 1800 | 1810 | 1820 | 1830 | |
|--|--------------------|--|----------------------------|----------------------------|----------------------------|-----------------------------------|-------------|
| Contig | l CCCAG | l GAAAGCGCCT(| GGGCTCAGGG | l CCAGATGGGG | ACCCACCATO | | ር ጥጥ |
| rat mRNA 113/114 NNG3 113/114 AS | CCCAG | GAAAGCGCCT | GGCTCAGGG | CCAGATGGGG | AACCCACCAT | CGGGCTCATGG | CTT |
| | 1840 | 1850 | 1860 | 1870 | 1880 | 1890 (| |
| Contig rat mRNA 113/114 NNG3 113/114 AS | TTTCC: | STTGGATCGAT STTGGATCGAT | TGGGAGAGG TGGGAGAGGT | TTGGAGAGAC TTGGAGAGAC | rggaaattgco rggaaattgco | GCTCCTTTTAG GATTTTTAG | ACC ACC |
| | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | ACGTC | GTGTGGCCGC | AGCGGCGAAA AGCGGCGAAA | ACTTTGACAA ACTTTGACAA | AGTTCTTCACG AGTTCTTCACG | CGGGCAGCGCCA | rec rec |
| • | 1960 | 1970 · | 1980 I | 1990 | 2000 | 2010 | • |
| Contig rat mRNA 113/114 NNG3 113/114 AS | CITGAC | CCCGCCAGAC | CGCTTGGTCC | TAGCCAGCAT TAGCCAGCAT | CGACCAAGCT CGACCAAGCT | GATTTCCAGGGC GATTTCCAGGGC | TT |
| | 2020 | 2030 | 2040 | 2050 | 2060 I | 2070 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | TACTTA TACTTA | TGTGAACCCG(TGTGAACCCG(| SACTTCGTGC. SACTTCGTGC. | ACCCAGATGC ACCCAGATGC | CCGCAGCCCC | ACAAGCCCTGTG ACAAGCCCTGTG | CC CC |
| | 2080 | 2090 | 2100 | 2110 | 2120 | 2130 | |
| Contig rat mRNA | TGTGCC TGTGCC | CGTCATG <u>TAA</u> 1 CGTCATG <u>TAA</u> 1 | CTCATCTGC' | IGCCGCTAGG | TGTTCCCAGT(| CTCCCTCCGCC | AA |
| 113/114 NNG3 113/114 AS | | Sto | op Codor | | | ercecreeger. | AA. |
| | 2140 | 2150 | 2160 | 2170 | 2180 | 2190 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | GTTGGC: | GTAACTCCCA GTAACTCCA | TCCACCCCA TCCACCCCA | ATCCCCGCCT(ATCCCCGCCT(| CTAGTCCGAAT CTAGTCCGAAT | TTTAGGTCTCTT TTTAGGTCTCTT | ra ra |
| • | 2200 ! | 2210 - | 2220 · | 2230 | 2240 | 2250 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | AACCACO | CAACCTTCTG CAACCTTCTG | GCCTCTTTCA GCCTCTTTCA | CGCGCCCA7 | GTGGGTTCTA GTGGGTTCTA | GACGCTGTTCCC GACGCTGTTCCC | :c :c |
| | 2260 . | 2270 I | 2280 I | 2290 | 2300 | 2310 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | AGCATTG | CTGGCATTTT | AAACTTCAAA | CAGTCTCTAG CAGTCTCTAG | AGCCTTTCTG | TGTTCTAGATTC TGTTCTAGATTC | :G :G |
| | 2320 | 2330 | 2340 | 2350 I | 2360 | 2370 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | TTGTGCT | GAGCCCTGGT" | TTTTCCCCAC | CCCCAACATC | ではなかないかにかっ | I PCCAACTCTTCC PCCAACTCTTCC | c c |
| | 2380 | 2390 | 2400 l | 2410 | 2420 1 | 2430 I | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | AGAAACC AGAAACC | CCACTCCGTGT | rggggttcta | SACTOTATOT | ፓር-ርጥ <u>ል</u> ርጥጥጥጥ | ATGCCTTCTCTC' ATGCCTTCTCTC' | r T |

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| | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | |
|--|--|---------------------------------------|---|---|---------------------------------|---|-------------------|
| Contig rat mRNA 113/114 NNG3 113/114 AS | CCCTA(| GACCACGTTGG GACCACGTTGG | GGAGAAATAG1 GGAGAAATAG1 | CTCATGAGA1 CTCATGAGA1 | TGCCTGCTCC TGCCTGCTCC | AGACTAAGAT AGACTAAGAT | rccz rccz |
| | 2500 I | 2510 | 2520 | 2530 | 2540 | 2550 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | GATCAG GATCAG | SCTCTCTGCAT SCTCTCTGCAT | CCTTCAAGGC CCTTCAAGGC | CCCTCCTACC | TCCACTTCAG TCCACTTCAG | I TTGTAGAATTA TTGTAGAATTA | lagt lagt |
| | 2560 | 2570 I | 2580 | 2590 | 2600 | 2610 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | GGGAGG GGGAGG | CTGGGCTCCG CTGGGCTCCG | TGTTCCAGGC | CACCTCCCTT CACCTCCCTT | CCATGTTCTG CCATGTTCTG | GGGATTCCTGG GGGATTCCTGG | CAT CAT |
| | 2620 I | 2630 · | 2640 | 2650 | 2660 | 2670 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | GCACGG | AGGATTCTCT | CCCCGACTTT CCCCGACTTT | I ICTCAGTCAG ICTCAGTCAG | I CTTTTGTTCT/ CTTTTGTTCT/ | AGATTTGTTCC, AGATTTGTTCC, | <u>AGA</u> AGA |
| Contig rat mRNA 113/114 NNG3 113/114 AS | 2680 -> <u>ACCCTT</u> <u>ACCCTT</u> | 2690 CACTGCTCAC CACTGCTCAC | 2700 CTGCCCCGTGC CTGCCCCGTGC | 2710 CATGGCTCCAC CATGGCTCCAC | 2720 SCCTTGGTCGG | 2730 FAAT <i>CACACAC</i> FAAT <i>CACACAC</i> | ACA ACA |
| | 2740 | 2750 I | 2760 | 2770 | 2780 | 2790 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | CACACA CACACA | CACACACACA CACACACACA | CACACACACAC CACACACACACAC | CACACACACAC CACACACACACAC | CACACACCCCT CACACACCCCT | TGTCCTCCGC/ | lgt lgt |
| | 2800 I | 2810 <- | 2820 | 2830 | 2840 | 2850 | |
| Contig rat mRNA 113/114 NNG3 113/114 AS | GCC <u>TGCC</u> | ACTTTCTGG | SACTTTCTCAT SACTTTCTCAT | CCCCACGCC | CTTCCTTTAT CTTCCTTTAT | l CCTCTCCCACC CCTCTCCCACC | CA CA |
| | 2860 | 2870 | 2880 | | | | |
| Contig rat mRNA 113/114 NNG3 | GACACAG GACACAG | CTGCTGGAGA CTGCTGGAGA | ATAAATTTG ATAAATTTG | | | | |

| -1 | | | | | | | | | | | | | | | | | т | CTTT | ~ |
|-----|-------------|-------------|--------------|------------|------------|-------|-------|--------|------------|------------|------------|------------|--------------|----------------|------------|-------------|------------|----------------|-----|
| -1. | 34 TO | CCC ATTC | TG | CGC: | rgcg | CACC | GTTA | GTGC | CCTG | CCCC | TGTC | CTTC | CGA | CTCA | GAGI | 'CTGC | | | _ |
| | | | .00 | CGI | المال | CIGI | TTCC | TCAG | AAAA | AAGG | CCAG | CTCG | TGAT | CCCT | 'GCTG | CGTI | CCT | GGGC | 3 |
| | | | | | | | | | | | | | | | | | | | |
| | Star | t A | la | Gly | Let | ı Gl | y Pr | o | y Gl | y Gl | y As | p Se | r Gi | u Gl | y Gl | y Pr | o Ar | g Pro | 17 |
| | I AI | G G | CG | GGT | CTO | G GG | r cc | r GG(| GG | G GG | C GA | C TC | A GA | A GG | G GG | Ā CC | C CG | G Pro | : - |
| | Le | u P | he | Cvs | Arc | Lv | s G1 | v 21 = | ı T.e.ı | . 2- | a 61. | . т | | 1 11- | | | | l Lys | |
| 5 | 2 CT | G T | TT | TGC | AG | A AA | 3 GG | GCG | CT | G AG | G CAG | т Бу | s va G GT | C CT | C C.V. | s Gl | u Va | l Lys G AAG | 34 |
| | | | | | | | | | | | | | | | | | | | |
| 10 | Se | r H | is | Lys | Phe | Th | r Ala | a Arg | Phe | Ph: | e Lys | 3 G1: | n Pr | o Th | r Ph | e Cy | s Se | r His | 51 |
| 10 | 3 AG | C () | AC | AAG | TTC | : ACC | GC1 | r cgi | TTC | TT | C AAG | CA | G CC | A AC | C TT | C TĠ | C AG | r His T CAC | : - |
| | Cy | s Tì | nr | Asp | Phe | Ile | . Trr | o Glu | 714 | . G1: | v T.120 | | ~ ~1. | | | _ | | n Val | |
| 15 | 4 TG | T A | CC | GAC | TTC | ATC | TGG | GGC | ATI | GG | A AAG | CA | G GG | у шет С СТО | - CA | a Cy. | B GI | n Val A GTC | 68 |
| | | | | | | | | | | | | | | | | | | | |
| 20 | СУ. 5 те | 3 56 | er | Pne | Val | Val | His | Arg | Arg | Cys | His | Gli | ı Ph | e Val | l Thi | Ph | e Gl | u Cys | 85 |
| | | - 110 | | | 313 | GII | CAC. | | CGA | TGC | CAC | GAA | A TT | r GTO | ACC | TT | GA | и Суз G ТGТ | |
| | Pro | G] | Lу | Ala | Gly | Lys | Gly | Pro | Gln | Thi | as As p | Ast | o Pro |) Arc | ı Aer | 1 T.320 | ui. | s Lys | 100 |
| 25 | 6 CC | A GO | C | GCT | GGA | AAG | GGC | CCC | CAG | ACC | GAC | GAC | CC | CGC | AAC | : AA | CA | s Lys C AAG | 102 |
| | | | | | | | | | | | | | | | | | | | |
| 30. | 7 TTC | CG | .9 T | CTG | CAC | AGC | TAC | yer | Ser | CCC | Thr | Phe | Cys | Asp | His | Су | Gl | y Ser T TCC | 119 |
| | | | | | | | | | | | | | | | | | | | |
| 250 | Let | Le | u | Tyr | Gly | Leu | Val | His | Gln | Gly | Met | Lys | Cys | Ser | Cys | Cys | Gli | ı Met | 136 |
| 336 | CIC | . C1 | | TAC | GGG | CTG | GTG | CAC | CAG | GGC | ATG | AAA | TGI | TCC | TGT | TGC | GAZ | Met ATG | |
| | Asn | . Va | 1 1 | His | Arg | Arσ | Cvs | Val | Ara | Ser | · Val | Pro | | | C | 6 1- | | . Asp | |
| 409 | IAA (| GT | G (| CAC | CGÃ | CGC | TGT | GTG | CGC | AGC | GTG | CCC | TCC | CTT | TGC | GET | val Gra | Asp GAC | 153 |
| | | | | | | | | | | | | | | | | | | | |
| 460 | CAT | AC | E (| zzu ztu | Arg | Arg | GTA | Arg | Leu | Gln | Leu | Glu | Ile | Arg | Ala | Pro | Thr | Ser | 170 |
| | | | | | | | | | | | | | | | | | | Ser | |
| | Asp | G1 | u I | [le | His | Ile | Thr | Val | Gly | Glu | Ala | Arg | Asn | Leu | Ile | Pro | Met | Asn | 187 |
| 511 | GAT | GA | G A | ATC | CAT | ATT | ACT | GTG | GGT | GAG | GCC | CGĞ | AAC | CTC | ATT | CCT | ATG | GAC | 10, |
| | | | | | | | | | | | Lys | | | | | | | | |
| 562 | CCC | AA' | T G | GC | CTG | TCT | GAT | ccc | TAT | GTG | AAA | CTG | Lys | СТС | TTE | Pro | Asp | Pro | 204 |
| | | | | | | | | | | | | | | | | | | | |
| 613 | Arg | ASI | n I | eu | Thr | Lys | Gln | Lys | Thr | Lys | Thr | Val | Lys | Ala | Thr | Leu | Asn | Pro | 221 |
| 013 | CGG | na | | .16 | ACA | AAA | CAG | AAG | ACA | AAG | ACC | GTG | AAA | GCC | ACA | CTG | AAT | CCC | |
| | Val | Tr | э А | sn | Glu | Thr | Phe | Val | Phe | Asn | Leu | Lvs | Pro | Glv | Aen | Wa I | C1 | 3 | 000 |
| 664 | GTG | TGO | 3 A | AC | GAG | ACC | TTC | GTG | TTC | AAC | CTG | AAG | CCG | GGG | GAT | GTG | GAG | CCC | 238 |
| | | | | | | | | | | | | | | | | | | | |
| 715 | CGG | CTC | . A | GT : | vaı GTG | GYG | CTC | Trp. | Asp Car | Trp | Asp GAT | Arg | Thr | Ser | Arg | Asn | Asp | Phe | 255 |
| | | | | | | | | | | | | | | | | | | | |
| | Met | Gly | / A | la 1 | Met | Ser | Phe | Gly | Val | Ser | Glu | Leu | Leu | Lys | Ala | Pro | Val | Asp | 272 |
| /00 | ATG | GG1 | . G | CC ; | ATG | TCC | TTT | GGT | GTC | TCA | GAG | CTA | CTC | AĀG | GCT | CCT | GTG | GAT | -,- |
| | Gly | Trp | т | yr 1 | Lvs | Leu | Leu | Asn (| Gln | Glu | Glu | G) v | C1 | M | M | | | _ | |
| 817 | GGA | TGG | T | ÃC Z | AÃG ' | TTA | CTG . | AAC | CAG | GAG | GAG | GGC | GAG | TAT | TAC | ASD | CTA | Pro | 289 |
| | | | | | | | | | | TAG | | | | | | ~ | -17 | | |
| | | | | | | | | Mut | ant | NNG: | STO | P | | | | | | | |
| | Val | Ala | Δ. | an 7 | י בוג | A 0 m | A | C17- 1 | 20- | T | 7 | ~ 1 | _ | | | | | | |
| 868 | GTG | GCC | G | AT C | GCT (| GAC . | AAC ' | TGC 1 | AGC (| LEU CTC | Leu (| CVC | тÀЗ | Phe | Glu | Ala | Суз | Asn | 306 |
| | | | | | | | | | | | | | | | | | | | |
| 910 | Tyr | Pro | L | eu C | lu 1 | Leu ' | Tyr | Glu / | lrg ' | Val | Arg 1 | Met | Gly | Pro | Ser | Ser | Ser | Pro | 323 |
| 213 | IAC | CCC | T. | rG G | AA, 1 | rTG ' | TAT (| GAG A | AGA (| GTG | CGG 2 | ATG | GGC | CCC | TCT | TCC | TCT | CCC | |
| | Ile | Pro | Şe | er E | ro s | Ser 1 | Pro : | Ser 5 | ero ' | Th r | Asp S | Ser | T.ve | A = ~ | c | DL - | D. | ~1 | |
| 970 | ATT | CCT | T | CT C | CA 1 | rcc d | CCC Z | AGT C | cc i | ACG | GAC : | rcc . | AAG | AGA | Cys TGC | TTC | rne TTC | сст ст | 340 |
| | | | | | | | | | | | | | | | _ | | | | |

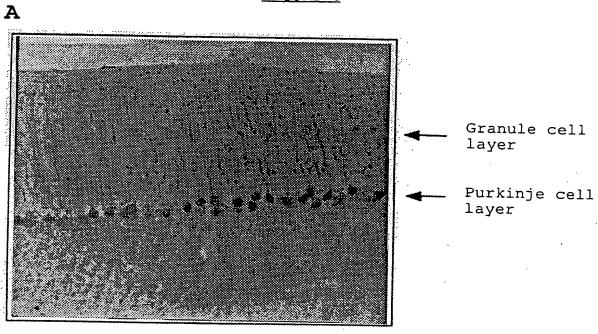
| 102 | Al 1 GC | a Se C A | er 1 GC (| Pro | Gl _y GGA | Arg CGG | J Let | His CAT | II AT | e Sei | rea : | Phe | Sei C AGO | Phe | E Le | Met AT | t Val | Leu CTA | 35 |
|------|--------------|--------------|--------------|--------------|------------------------|--------------|------------|------------|------------|----------------|--------------|----------------|--------------|------------|------------|----------------|----------------|------------|-----|
| 107 | G1 2 GG | y Ly G A |) EN | Gly GC | Ser AGT | Phe | e Gly | Lys AAG | Va. | l Met G ATG | Lev CTC | a Ala G GCA | Glu GAG | Arg | Arg AGA | g Gly A GGZ | y Sei | qeA : | 37 |
| 112 | Gl 3 GA | u Le A CI | u I | 'yr 'AT | Ala GCC | Ile | Lys AAG | Ile ATA | Let CTC | Lys AAA | Lys AAA | Asp ASO | Val | Ile ATT | Val | Glr CAC | Asp GAT | qeA c | 39 |
| 117 | Ası 4 GA | p Va F G1 | l A 'A G | AS SAC | Cys TGC | Thr | Leu CTT | Val GTG | Glu GAC | Lys AAG | Arg CGT | Val | Leu CTG | Ala GCA | Leu TTC | Gly GGA | GGC GGC | Arg CGA | 40 |
| 122 | Gly 5 GG | y Pr | o G | ly GA | GGC GGC | Arg CGG | Pro CCA | His CAC | Phe | Leu CTC | Thr | Gln CAA | Leu CTT | His CAT | Ser TCC | Thr | Phe | Gln CAG | 425 |
| 127 | Thi ACT | r Pr | o A G G | gp SAC | Arg CGC | Leu CTG | Tyr | Phe TTT | Val GTG | Met ATG | Glu GAG | Tyr | Val GTC | Thr ACT | Gly GGG | Gly GGC | Asp GAT | Leu TTA | 442 |
| 1327 | Met 7 ATC | Ty TA | r H C C | is AC | Ile ATT | Gln CAG | Gln CAA | Leu CTG | GGC GGC | Lys AAG | Phe TTT | Lys AAG | Glu GAG | Pro CCC | His CAC | Ala GCA | Ala GCA | Phe TTC | 459 |
| 1378 | Tyr TA1 | GC | a A C G | la CG | Glu GAA | Ile ATC | Ala GCC | Ile ATA | Gly GGC | Leu CTC | Phe TTC | Phe TTC | Leu CTT | His CAC | Asn AAC | Gln CAG | GGC GGC | Ile ATC | 476 |
| 1429 | Ile ATC | TA | r A | rg . GG | Asp GAC | Leu CTC | Lys AAG | Leu TTG | Asp GAT | Asn AAT | Val GTG | Met ATG | Leu CTG | Asp GAT | Ala GCT | Glu GAA | Gly GGA | His CAC | 493 |
| 1480 | Ile ATC | Ly: | s I. G A' | le ' | Thr ACA | Asp CAC | Phe TTC | Gly GGC | Met ATG | Cys TGT | Lys AAA | Glu GAG | Asn AAT | Val GTC | Phe TTC | Pro CCT | Gly GGG | Ser TCC | 510 |
| 1531 | Thr ACA | Th: | r A | rg ' GC : | Thr ACC | Phe TTC | Cys TGT | Gly GGG | Thr ACC | Pro CCA | Asp GAC | Tyr TAC | Ile ATA | Ala GCA | Pro CCT | Glu GAG | Ile ATC | Ile ATT | 527 |
| 1582 | Ala GCC | TA: | r G | ln i | Pro | Tyr TAT | Gly GGG | Lys AAG | Ser TCT | Val GTC | GAC | Trp TGG | Trp TGG | Ser TCC | Phe TTT | Gly GGA | Val GTC | Leu CTG | 544 |
| 1633 | Leu CTG | Ty: | G G | lu 1 AG 1 | Met ATG | Leu TTG | Ala GCA | Gly GGA | Gln CAG | Pro CCA | Pro CCC | Phe TTT | Asp GAT | Gly GGG | Glu GAA | Asp GAT | Glu GAG | Glu GAG | 561 |
| 1684 | Glu GAG | Let | ı Pi | ne (| Gln CAA | Ala GCC | Ile ATC | Met ATG | Glu GAA | Gln CAA | Thr ACT | Val GTC | Thr ACC | Tyr TAT | Pro CCC | Lys AAG | Ser TCA | Leu CTT | 578 |
| 1735 | Ser TCC | Arg CGG | G] GA | Lu A | Ala 3CT | Val GTG | Ala GCC | Ile ATC | Cys TGC | Lys AAG | GGG GGG | Phe TTC | Leu CTG | Thr ACC | Lys AAG | His CAC | Pro CCA | Gly GGA | 595 |
| 1786 | Lys AAG | Arg | Le CI | u G | Sly SGC | Ser TCA | Gly GGG | Pro CCA | Asp GAT | Gly GGG | Glu GAA | Pro CCC | Thr ACC | Ile ATC | Arg CGG | Ala GCT | His CAT | GL y | 612 |
| 1837 | Phe TTT | Phe TTC | Ar CG | g I | rp GG . | Ile ATC | Asp TAD | Trp TGG | Glu GAG | Arg AGG | Leu TTG | Glu GAG | Arg AGA | Leu CTG | Glu GAA | Ile ATT | Ala GCG | Pro CCT | 629 |
| 1888 | Pro CCT | Phe TTT | Ar AG | g F A C | CA | Arg CGT | Pro CCG | Cys TGT | GGC GGC | Arg CGC | Ser AGC | Gly GGC | Glu GAA | Asn AAC | Phe TTT | Asp GAC | Lys AAG | Phe TTC | 646 |
| 1939 | Phe TTC | Thr ACG | Ar CG | g A G G | Lla : CA (| Ala GCG | Pro . | Ala GCC | Leu TTG | Thr ACC | Pro CCG | Pro CCA | Asp GAC | Arg CGC | Leu TTG | Val GTC | Leu CTA | Ala GCC | 663 |
| 1990 | Ser AGC | Ile ATC | ea Ad | p G C C | ln i | Ala GCT | Asp GAT | Phe TTC | Gln CAG | GGC GGC | Phe TTT . | Thr ACT | Tyr TAT | Val GTG | Asn AAC | Pro CCG | Asp GAC | Phe TTC | 680 |
| 2014 | Val GTG | His CAC | Pr CC | o A A G | sp 1 | Ala . GCC | Arg : | Ser : | Pro CCC | Thr ACA | Ser AGC | Pro ' | Val GTG | Pro CCT | Val GTG | Pro CCC | Val : GTC : | Met ATG | 697 |

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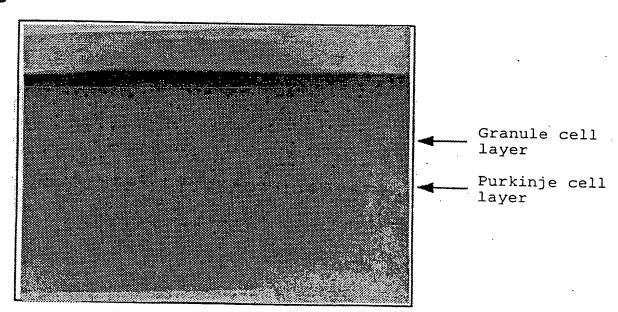
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| | Stop . |
|------|---|
| 2092 | TAA TCTCATCTGCTGCCGCTAGGTGTTCCCAGTGCTCCCTCCGCCAAGTTGGCTGTAACTCCCAT |
| 2158 | CACCCCCATCCCCGCCTCTAGTCCGAATTTTAGGTCTCTTAAACCACCCCAACCTTCTGGCCTCTTT |
| 2225 | ACGCGCCCCAAGTGGGTTCTAGACGCTGTTCCCCAGCATTGCTGGCATTTTAAACTTCAAACAGTC |
| 2292 | CTAGAGCCTTTCTGTGTTCTAGATTCGTTGTGCTGAGCCCTGGTTTTTCCCCCACCCCCAACATCTG |
| 2359 | ATGCTGTTCCAACTCTTCCCAGAAACCCCACTCCGTGTGGGGTTCTAGACTCTATCTTGGTAGTTTT |
| 2426 | ATGCCTTCTCTCTCCCTAGACCACGTTGGGAGAAATAGTCTCATGAGATTGCCTGCTCCAGACTAA |
| 2493 | ATTCCAGATCAGCTCTCTGCATCCTTCAAGGCCCCTCCTACCTCCACTTCAGTTGTAGAATTAAGT |
| 2560 | GGAGGCTGGGCTCCGTGTTCCAGGCCACCTCCCTTCCATGTTCTGGGGATTCCTGGCATGCACGGA |
| 2627 | GATTCTCTCCCCGACTTTTCTCAGTCAGCTTTTGTTCTAGATTTGTTCCAGAACCCTTCACTGCTC |
| 2694 | CCTGCCCCGTGCATGGCTCCAGCCTTGGTCGGAATCACACACA |
| 2761 | CACACACACACACACACACACCCCTTGTCCTCCGCAGTGCCTGCC |
| 2828 | CCCACGCCCTTCCTTTATCCTCTCCCACCCAGACACAGCTGCTGGAGAATAAATTTG |
| | |

FIGURE 4



B





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FIGURE 5

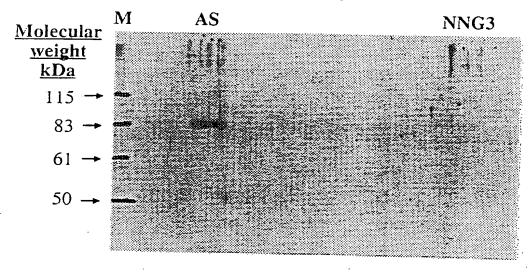
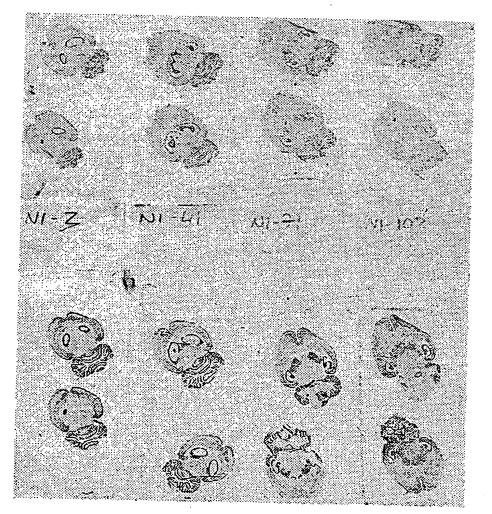


FIGURE 6



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| | | | FIG | URE 7 | | | |
|------------|---------------------|--|-----------------------|-------------------|--|-----------------|--|
| -140 | -130 | -120 - | -110 – | 100 -9 | 0 -8 | o – | 70 |
| TGCTTTCT | GCCCTGCGCT0 | CGCACCGTTAGT | GCCCTGCCCC | IGTCCTTCCGA | TCTCAGAGTC | TGCGGAGTG | l CCCCTZ |
| | | | | ****** | TCTCAGAGTC | • • • • • • • • | |
| -60 | -50 | -40 | -30 | -20 | -10 | 1 | 10 |
| TCGCCGTC | CACCTGTTTCC | I TCAGAAAAAGG | I CCAGCTCGTG | \TCCCTGCTGC(| GTTCCTGGGG | CCATGGCGG | ן פיזיכיזיפס |
| TCGCCGTC | ACCTGTTTCC | TCAGAAAAAAGG | CCAGCTCGTG | | | • • • • • • • • | • • • • • • |
| | | | | | Start co | | FTCTGG |
| 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| GTCCTGGCG | I GGGGCGACTC | AGAAGGGGGACC | ا CCGACCCCTGT | TTTGCAGAAA | ==================================== | 1 | |
| | •••••• | | ••••••• | | | | |
| | _ | AGAAGGGGGACC | CCGACCCCTGT | TTTGCAGAAAG | GGGGCGCTG | \GGCAGAAGG | TGGTC |
| 10 | 0 11: | 0 120 I I | 130 I | 140 | 150 | 160 | |
| CACGAGGTG | AAGAGCCACA | AGTTCACCGCTC | STTTCTTCAAG | CAGCCAACCTI | CTGCAGTCAC | TGTACCGAC | TTCAT |
| CACGAGGTG | AAGAGCCACA | AGTTCACCGCTC | STTTCTTCAAG | CAGCCAACCTT | CTGCAGTCAC | TGTACCGAC | יייער אייייייייייייייייייייייייייייייייי |
| | | | | | | | IICAI |
| 170 | 180 | 190 | 200 | 210 2 | 20 2 | 30 | 240 |
| CTGGGGCAT | I TGGAAAGCAG(| GCCTGCAATGTC | AAGTCTGCAG | CTTTGTGGTTC | ן ACCGCCGATG | "ሮሮልሮፎል አጥጥ | ן |
| CTGGGGCAT | TGGAAAGCAG | , , , , , , , , , , , , , , | • • • • • • • • • | | | | |
| | | GCCTGCAATGTC | | _TTTGTGGTTC | ACCGCCGATG | CCACGAATT | TGTGA |
| 250 | 260 | 270 i | 280 I | 290 | 300 | 310 | 320 |
| CCTTCGAGT | GTCCAGGCGCT | GGAAAGGGCCCC | CAGACGGACG | ACCCTCGCAAC. | , AAGCACAAGT | TCCGTCTGC | ACAGC |
| CCTTCGAGT | STCCAGGCGCT | GGAAAGGGCCCC | CAGACGGACG | ACCCTCGCAAC | AAGCACAAGT | TCCGTCTGC | ACAGC |
| 330 | 340 | 350 | 360 | 370 | 380 | 390 | |
| JACAGCAGTO | | | TTTCCCTCCTCCT | İ | 1 | 1 | |
| 000000000 | , , , , , , , , , , | ····· | ······· | | GCACCAGGGC: | | |
| TACAGCAGTO | CCACCTTCTG | CGACCACTGTGG | TTCCCTCCTCI | ACGGGCTGGT | GCACCAGGGC: | ATGAAATGT | CCTG |
| 400 | 410 | 420 4 | 30 44 | 0 450 | 0 46 | 0 4- | 70 |
| TTGCGAAATG | AATGTGCACC | GACGCTGTGTGC | ا GCAGCGTGCCC | TCCCTTTGCGG | CGTGGACCA | | ~CCTC |
| | | GACGCTGTGTGC | | | | | |
| 480 | 490 | | | | SCGTGGACCA. | PACAGAGCGC | CGTG |
| ĺ | i | 1 | 1 | 20 53 | i | | 550 |
| GACGTCTGCA | ACTGGAAATC | CGGGCTCCCACA! | TCAGATGAGAT | CCATATTACTO | TGGGTGAGG | CCGGAACCT | CATT |
| GACGTCTGCA | ACTGGAAATC | CGGGCTCCCACA: | ICAGATGAGAT | CCATATTACTO | TGGGTGAGG | CCGGAACCT | CATT |
| 560 | 570 | 580 | 590 | 600 | 610 | 620 | |
| CCTATGGACC | CCAATGGCCT0 | ==================================== | ICECA A A CECA | 1 | | | |
| | | STCTGATCCCTAT | • • • • • • • • • • • | •••••• | | | |
| CCTATGGACC | CCAATGGCCT | STCTGATCCCTAT | rgtgaaactga | AGCTCATCCCG | GACCCTCGGA | ACCTGACAA | AACA |
| 630 · | 640 (| 550 660 | 670 | 680 | 690 | 700 | |
| GAAGACAAAG | ACCGTGAAAG | CACACTGAATC | i CGTGTGGAAC | GAGACCTTCGT | ן GTTCAACCTG | AAGCCGGGG | GATG |
| | | CACACTGAATC | , | | | | |
| | | | | -AGACCITCGT | GITCAACCTG | AAGCCGGGG | GATG |

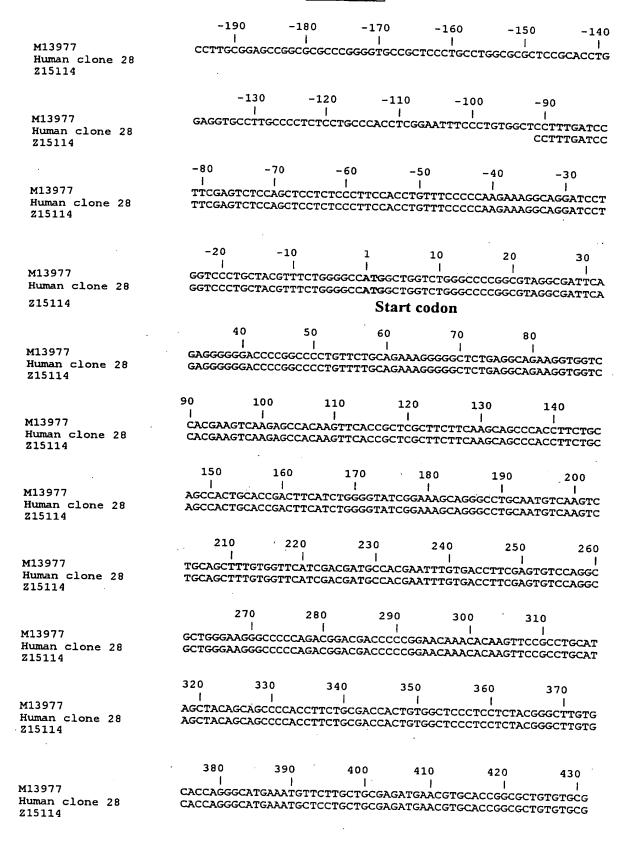
| | | | | 30100 / T | CONT. | | |
|--------------|-------------------|---|--------------------------|---------------------|------------------|-----------------|---|
| 710 | 720 I | 730 I | 740 | 750 | 760 | 770 | 780 |
| TGGAGCGC | CGGCTCAGT | STGGAGGTG1 | 'GGGATTGGGI | TAGGACATC | CCGAAATGAC1 | 'TC | CATICACAMA |
| | | | | , , , , , , , , , , | | | |
| TOGNOCOCC | -GGC I CAGT | FIGGAGGTGT | 'GGGATTGGG! | NTAGGACATC | CCGAAATGACT | TCATGGGTGC | CATGTCCTTI |
| 790 I | 800 | 810 | 820 | 83 | 0 840 | 850 | 860 |
| GGTGTCTC | GAGCTACT | AAGGCTCCT |) GTGGATGGAT | GGTACAAGT | i Tactgaaccag | (ACC) (CCC | 3.553.555 |
| | GAGCTACTC | , | | • • • • • • • • • | TACTGAACCAG | ••••••• | |
| | 870 | 880 | 890 | 900 | 910 | 920 | 930 |
| TGTACCGGT | GGCCGATGC | TGACAACTG | CAGCCTCCTC | l CAGAAGTTTC | =AGGCCTGTAA | 1 | 1 |
| TGTACCGGT | GGCCGATGC | | | | AGGCCTGTAA | | |
| 940 | 950 | 960 | 970 | 980 | 990 | 1000 | |
| AGAGAGTCC | GGATGGGGG | COMOMMOOM |] | | | | 1010 |
| ****** | ******* | CCTCTTCCT | PICCCATTCC | TTCTCCATCC | CCCAGTCCCA | CGGACTCCAAC | AGATGCTTC |
| AGAGAGTGC | GGATGGGCC | CCTCTTCCTC | TCCCATTCC | ITCTCCATCC | CCCAGTCCCA | GGACTCCAAG | AGATGCTTC |
| 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 |
| TTCGGTGCC | AGCCCAGGA | CGCCTGCATA | TCTCTGACT | CAGCTTCCT | CATGGTTCTAG | GGAAAGGCAG | ן יייייייייייייייייייייייייייייייייייי |
| ייירכבייבררי | | ~ | | | | | |
| 110001000 | AGCCCAGGA! | CGCCTGCATA | TCTCTGACT | CAGCTTCCT | CATGGTTCTAG | GGAAAGGCAG | TTTTGGGAA |
| 11 | 100 | 1110 | 1120 | 1130 | 1140 | 1150 | 1160 |
| GGTGATGCT | GCAGAGCG(| CAGAGGATCC | GATGAACTC1 | I TATGCCATCA | I Agatactgaaa | A | TTCTCCACC |
| | | , , , , , , , , , , | | | | | |
| | CCAGAGCGC | MGAGGATCC | GATGAACTCT | ATGCCATCA | AGATACTGAAA | AAAGACGTCA | TTGTCCAGG |
| 1170 | 1180 | 1190 | 1200 | 1210 | 1220 | 1230 | 1240 |
| ATGATGATGT | AGACTGCAC | CCTTGTGGA | GAAGCGTGTG | CTGGCATTG | GGAGGCCGAGG | ן TCCTGGAGGC | ן כהפרר <i>א</i> ר אר |
| ATGATGATGT | י א כא כיייכר א כ | | | | | | |
| | | CCIIGIGGA | GAAGCGTGTG | CTGGCATTG | GAGGCCGAGG | TCCTGGAGGC | CGGCCACAC |
| 1250 | 1260 | 1270 | 1280 | 1200 | | | |
| <u> </u> | i | 12,0 | 1280 · | 1290 I | 1300 | 1310 | 1320 |
| TTTCTCACAC | AACTTCATT | 'CCACCTTTC | AGACTCCGGA | CCGCCTGTAT | TTTGTGATGG. | AGTACGTCAC | I IGGGGGGCGA |
| TTTCTCACAC | AACTTCATT | CCACCTTTC | 。。。。。。。。。。 AGACTCCCCX | CCCCCCC | | | |
| | | Carcella | | CCGCCTGTA | TTTGTGATGG | AGTACGTCAC' | rgggggga |
| 1330 | 1340 | 1350 | 1360 | 1370 | 1380 | 1390 | |
| TTTAATGTAC | CACATTCAG | ا CAACTGGGC | ኤጋል ልጥጥጥ ጋር | ا محدددده دحد | ا AGCATTCTAT؛ | | |
| | | | , | | | | |
| TTTAATGTAC | CACATTCAG | CAACTGGGC | AGTTTAAGG. | AGCCCCACGC | AGCATTCTAT | GCCGCGGAAAI | CGCCATAG |
| 1400 | 1410 | 1420 | 1430 | 1440 | 1450 | 1460 | 1470 |
| | | | 1 | | 1 | | |
| GCCTCTTCTT | | | | | | | |
| GCCTCTTCTTC | CCTTCACAA | CCAGGGCATC | ATCTACAGG | FACCTCAAGT | TGGATAATGT | ATGCTGGATG | CTGAAGGA |
| 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | 1540 | 1550 |
| CACATCAAGAT | l Cacagactri | PCGGC \unicade | TAAAGAGAGA | | | 1 | |
| CACATCAAGAT | | | | | | | |
| CACATCAAGAT | CACAGACT! | rcggcatgtg | TAAAGAGAA1 | GTCTTCCCT | GGGTCCACAAC | CCGCACCTTC | TGTGGGAC |
| | | | | | | | |

| | | | | 50x40 110 | CIVI | | |
|-----------------|---------------------|--|---|----------------------|---------------------|---|---------------------|
| 1560 | 1570 | 1580 | 1590 | 1600 | 1610 | 1620 | 1630 |
| CCCAGAC | I CTACATAGCAC | ا CTGAGATCAT: | ا GCCTATCAG | |) ACTICTICTICS A | 1 | i |
| • • • • • • | •••••••• | •••••• | • • • • • • • • • | | AGTCTGTCGAC | | TTGGAGTCC |
| CCCAGAC | TACATAGCAC | CTGAGATCAT | IGCCTATCAG | CCCTATGGGA | AGTCTGTCGAC | TGGTGGTCCT | TTGGAGTCC |
| | | | | | | | 110010100 |
| | 1640 | 1650 | 1660 | 1670 | 1680 | 1690 | 120- |
| MCCMCM) | 1 | 1 | 1 | ı | 1 | | 1700 |
| TGCTGTA | TGAGATGTTG | GCAGGACAGC | ACCCTTTGA | TGGGGAAGAT | GAGGAGGAGCT | GTTTCAAGCC | , ATCATGGAA |
| | | | | | GAGGAGGAGCT | | |
| | | | | 1 GGGGAAGAT | GAGGAGGT | GTTTCAAGCC | ATCATGGAA |
| | | | • | | | | |
| 1710 | 1720 | 1730 | 1740 | 1750 | 1544 | | |
| i | 1 | 1 | 1 | 1750 I | 1760 | 1770 | 1780 |
| CAAACTG | TCACCTATCC | CAAGTCACTTT | CCCGGGAAG | TGTGGCCAT | CTGCAAGGGGT | rcctgaccaac | |
| CAAACTG' | ICACCTATCC | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | and to to to to to to to to to to to to to | CCCGGGAAGC | TGTGGCCAT | TGCAAGGGGT | CCTGACCAAG | CACCCAGG |
| 1790 | 1000 | | | | | | |
| 1/90 | 1800 | 1810 | 1820 | 1830 | 1840 | 1850 | 1860 |
| AAAGCGCC | CTGGGCTCAGG | GCCAGATGGG | ן SAACCCACCA | ן ידרר ההברידר זי | NTGGCTTTTTCC | | ı |
| | | | | | | | |
| AAAGCGCC | TGGGCTCAGG | GCCAGATGGG | GAACCCACCA | TCCGGGCTCA | TGGCTTTTTCC | GTTGGATCGA | TTGGGAGA |
| | 1870 | | | 1900 | | • • • | |
| | 1 | 1 | | 1 | ī | - | 930 |
| GGTTGGAG | AGACTGGAAA | TTGCGCCTCCT | TTTAGACCA | CGTCCGTGTG | GCCGCAGCGGC | GAAAACTTTG | ACAAGTTC |
| GGTTGGAG | AGACTGGAAA | TTGCGCCTCCT | """"" """"" | CCTCCCTCTC | GCCGCAGCGGC | | ••••• |
| | | | TITAGACCA | CGICCGIGIG | GCCGCAGCGGC | GAAAACTTTG. | ACAAGTTC |
| 1940 | 1950 | 1960 | 1970 | 1980 | 1990 | 2000 | 2010 |
| TTCACGCG | GGCAGCGCCA | I GCCTTGACCCC |) הכרש בש כרכי | | | l | |
| • • • • • • • • | | | | | GCCAGCATCGA | | |
| TTCACGCG | GGCAGCGCCA | GCCTTGACCCC | GCCAGACCG | CTTGGTCCTA | GCCAGCATCGA | CCAAGCTGAT | TCCAGGG |
| 2020 | 2030 | 2040 | 2050 | | | | |
| 1 | 1 | 1 | i | 2060 | 2070 | 2080 | 2090 |
| CTTTACTT | ATGTGAACCC | GACTTCGTGC | ACCCAGATGO | CCGCAGCCC | I CACAAGCCCTG: | IGCCTGTGCCC | I GTCATG |
| | | | ~ | | | | |
| | | - CALC 1 1 C G 1 G C | ACCCAGATGC | CCGCAGCCC | CACAAGCCCTG | reccietecco | GTCATG |
| 2100 | 2110 | 2120 | 2130 | 2140 | 2150 | 2160 | 2170 |
| TAATCTCAT | ן ייטייפרייפררפר | 'T' |) | 1 | 1 | 1 | 2170 |
| | | | | | TTGGCTGTAAC1 | CCCATCCACC | |
| TAATCTCAT | CTGCTGCCGC | TAGGTGTTCC | CAGTGCTCCC | TCCGCCAAGT | TGGCTGTAACT | · • • • • • • • • • • • • • • • • • • • | |
| Stop Cod | lon | | | | | CCCATCCACC | CCCATCCC |
| | | | | • | | | |
| | 2180 | 2190 | 2200 | 2210 | 2220 | 2230 | 2240 |
| CGCCTCTAG | ו TCCGAATTTT | ା AGGጥርጥርጥጥል ፣ | 1 | l Sammanaaa | TCTTTCACGCG | | |
| | | | | | | | |
| CGCCTCTAG | TCCGAATTTT | AGGTCTCTTA? | ACCACCCAA | CCTTCTGGCC | TCTTTCACGCG | CCCCAA-TGG | ****** 277777777 |
| 2250 | 2260 | 2270 | | | | | orreing . |
| 1 | 1 | 1 | 2280 1 | 2290 | 2300 | 2310 | 2320 |
| ACGCTGTTC | CCCAGCATTG | CTGGCATTTTA | AACTTCAAA | ' CAGTCTCTAG | I AGCCTTTCTGT | ן בייים איים מייים איים | |
| | | | | | | | |
| -100010110 | CCCAGCATTG(| JIGGCATTTTA | AACTTCAAA | CAGTCTCTAG | AGCCTTTCTGT | GTTCTAGATT(| CGTTGTG |
| | | | | | | | |

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| 2330 CTGAGCC | 2340 CTGGTTTTC | 2350 CCCACCCCAA | 2360 CATCTGGATG | 2370 - | 1 | | i i |
|----------------------|-------------------------|--------------------------|--------------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| CTGAGCC | CTGGTTTTTC | CCCACCCCAA | CATCTGGAT | CTGTTCCAA | CTCTTCCCAG | AAACCCCACT | CCGTGTGGGG |
| TTCTAGA | 2410 CTCTATCTTG | 2420 GTAGTTTTATG | 2430 CCTTCTCTCT | 2440 CCCTAGACC | 2450 ACGTTGGGAG | 2460 AAATAGTCTC | 2470 LATGAGATTGC |
| TTCTAGA | CTCTATCTTG | GTAGTTTTATG | CCTTCTCTCI | CCCTAGACC | ACGTTGGGAG | AAATAGTCTC | ATGAGATTGC |
| 2480 I CTGCTCC | 2490 AGACTAAGAT | 2500 TCCAGATCAGC | 2510 TCTCTGCATC | 2520 CTTCAAGGC | 2530 CCCTCCTACC | 2540 TCCACTTCAG | 2550 TTGTAGAA |
| CTGCTCC | \GACTAAGAT | TCCAGATCAGC' | TCTCTGCATC | CTTCAAGGC | CCCTCCTACC | TCCACTTCAG | TTGTAGAA |



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| | 440 | 450 | 46 | 0 47 | 0 48 | 0 |
|------------------------------------|--|-------------------------------------|---------------------------------------|---|---|----------------------|
| M13977 Human clone 28 Z15114 | TAGCGTGCCC | I TCTCTGTGC TCCCTGTGC | GGTGTGGAC | I CACACCGAGC CACACCGAGC | l ecceceece | |
| M13977 Human clone 28 Z15114 | GGAGATCCGG | GCTCCCACA | GCAGATGAGA GCAGATGAGA | ኒጥሮሮሽሮሮሞክ አ | 530 CTGTTGGCGA(CTGTTGGCGA(CTGTTGGCGA(| 540 GCCCGTA |
| M13977 Human clone 28 Z15114 | 550 CCTAATTCCT. CCTAATTCCT. CCTAATTCCT. | WIRGWICE CO. | AAUGGTCTCT | יכדיכא ידיר כידיו | \ | |
| M13977 Human clone 28 Z15114 | 610 CCCAGACCCTC CCCAGACCCTC CCCAGACCCTC | GGAACCTGA | CGAAACAGA CGAAACAGA | AGACCCGAAC | GGTGAAAGCC | ACGCTAAZ |
| M13977 Human clone 28 Z15114 | I CCCTGTGTGGA CCCTGTGTGGA CCCTGTGTGGA | かれらならせぐじて | TIGIGITCA | ACCTCA ACCC | ACCCCAMCMC | |
| M13977 Human clone 28 Z15114 | 720 GCTCAGCGTGG GCTCAGCGTGG GCTCAGCGTGG | WGG1G1GG | AUTGGGACC | ₹ ₢ ₿₿₿₽₽₽₽₽₽ | Caaccaccac | maaa |
| M13977 Human clone 28 Z15114 | 780 CATGTCCTTTG CATGTCCTTTG CATGTCCTTTG | GCGTCTCGG | AGCTGCTCAA | にんしんしんしんしん | *C | |
| M13977 Human clone 28 Z15114 | 840 ACTGAACCAGG ACTGAACCAGG ACTGAACCAGG | 100M06666 | GTATTACAA | TGTGCCGGTG | GCTGATGCTG | ACAACTG |
| M13977 Human clone 28 Z15114 | 890 S CAGCCTCCTCCA CAGCCTCCTCCA CAGCCTCCTCCA | \GAAGTTTG# | ለ ር ርርጥጥርጥል ል | こかか ここここことかし | ~ ~ ~ mmcm> | - |
| M13977 Human clone 28 Z15114 | 950 GCGGATGGGCCC | CICITCCTC | TCCCATCCC | 980 CTCCCCTTCC | 990 CCTAGTCCCA(CCTAGTCCCA(| 1000 CCGACCC |
| M13977 Human clone 28 215114 | 1010 CAAGCGCTGCTT CAAGCGCTGCTT | 1020 (CTTCGGGGC CTTCGGGGC | 1030 GAGTCCAGGA GAGTCCAGGA | 1040 |) TCTCCC3.cm | CAGCTT |

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| | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | | |
|--|---|--|--|--|---|---|--|--|
| V12077 | 1 | j | 1 | 1 | 1 | 1110 | | |
| M13977 | | | | • | <u>I</u> | ı | | |
| Human clone 28 Z15114 | CCTCAT | GGTTCTAGGAA | AAGGCAGTTTI | GGGAAGGTG | ATGCTGGCC | SAGCGCACCCC | | |
| 213114 | CCTCAT | GGTTCTAGGAA | AAGGCAGTTTT | GGGAAGGTG | ATGCTGGCC | FAGCGCAGGGG | | |
| | | | | | | DI TOCOCAGOGG | | |
| | 1120 | 1130 | 1140 | 1150 | 1160 | 1170 | | |
| M13977 | 1 | t | 1 | 1 | 1100 | 1170 | | |
| | | | | • | ' | | | |
| Human clone 28 Z15114 | CTCTGA' | TGAGCTCTACG(| CATCAAGATC | TTGAAAAAGG | ACGTGATC | TCC3 CC3 CC- | | |
| 215114 | CTCTGA' | TGAGCTCTACGO | CATCAAGATC | TTGAAAAAGC | ACGTGATCG | TCCAGGACGA | | |
| | | | | | "ICOIGNICE | HUCAGGACGA | | |
| | | | | | | | | |
| | 1: | 180 119 | 0 120 | 121 | 0 10 | 20 | | |
| V12072 | | 1 1 | 1 | | | 20 | | |
| M13977 | | | • | • | | 1 | | |
| Human clone 28 | CGATGT | GACTGCACGCT | GGTGGAGAAA | GTGTGCTGG | CGCTGGGGG | CCCCCCC | | |
| 215114 | CGATGT | GACTGCACGCT | GGTGGAGAAA | GTGTGCTGG | CGCTGGGG | CCCCCCCCTCC | | |
| | | | | | | occeeee100 | | |
| | 1230 | 1240 | 1250 | 1260 | 1270 | 1280 | | |
| м13977 | 1 | 1 | 1 | 1 | 1 | 1200 | | |
| | | | | | • | 1 . | | |
| Human clone 28 Z15114 | TGGCGGC | CGGCCCCACTT | CCTCACCCAGO | TCCACTCCA | CCTTCCAGA | CCCCCACC | | |
| 213114 | TGGCGGC | CGGCCCCACTT | CCTCACCCAGO | TCCACTCCA | CCTTCCAGA | CCCCCCACC | | |
| | | | | | I COLLON | CCCGGACC | | |
| | 1290 | 1300 | 1310 | 1320 | 1330 | 1340 | | |
| M13977 | į. | ·] | 1 | i | 1 | 1340 | | |
| Human clone 28 | | | | • | • | ı | | |
| Z15114 | GCCTGTA | TTTCGTGATGG | AGTACGTCACC | GGGGGAGAC | TGATGTACC | מר איייים ארם | | |
| 213114 | GCCTGTA | TTTCGTGATGG | AGTACGTCACC | GGGGGAGAC | TGATGTACC | ACATTCAAC | | |
| | | | | | | a scare I CAMC | | |
| | 1350 | 1360 | 1370 | 1380 | 1390 | 1400 | | |
| M13977 | 1 | 1 | 1 | . | 1 | 1400 | | |
| | | | | | • | • | | |
| Human close 20 | AGCTGGGCAAGTTTAAGGAGCCCCATGCAGCGTTCTACGCGGCAGAAATCGCTATCG | | | | | | | |
| Human clone 28 Z15114 | AGCTGGG | CAAGTTTAAGG | GCCCCATGCA | GCGTTCTACG | CGGCAGAAA | TCGCTATCG | | |
| Human clone 28 Z15114 | AGCTGGGG | CAAGTTTAAGG! CAAGTTTAAGG! | AGCCCCATGCA AGCCCCATGCA | GCGTTCTACG | CGGCAGAAA CGGCAGAAA | TCGCTATCG TCGCTATCG | | |
| | 1.001000 | ∴nngiiinagga | GCCCCATGCA | -CGTTCTACG | CGGCAGAAA CGGCAGAAA | TCGCTATCG TCGCTATCG | | |
| | 1.001000 | CAAGTTTAAGGA CAAGTTTAAGGA 110 142 | GCCCCATGCA | -CGTTCTACG | CGGCAGAAA | TCGCTATCG TCGCTATCG 50 | | |
| | 1.001000 | ∴nngiiinagga | GCCCCATGCA | SCGTTCTACG | CGGCAGAAA | TCGCTATCG | | |
| Z15114 M13977 | 14 | 110 142 | 0 1430 | GCGTTCTACG | CGGCAGAAA 0 14 I | TCGCTATCG 50 | | |
| Z15114 | GCCTCTTC | 410 142 | TCAGGGCATGCA | TCTACAGG | CGGCAGAAA 0 14 | TCGCTATCG 50 | | |
| Z15114 M13977 Human clone 28 | GCCTCTTC | 410 142 | TCAGGGCATGCA | TCTACAGG | CGGCAGAAA 0 14 | TCGCTATCG 50 | | |
| Z15114 M13977 Human clone 28 | GCCTCTTC | 310 142 - CTTCCTTCACAA | TCAGGGCATCA | 144 144 ATCTACAGGG | CGGCAGAAA 0 14 | TCGCTATCG 50 | | |
| Z15114 M13977 Human clone 28 | GCCTCTTC | 410 142 | TCAGGGCATGCA | TCTACAGG | CGGCAGAAA 0 14 | TCGCTATCG 50 | | |
| Z15114 M13977 Human clone 28 | GCCTCTTC | 310 142 - CTTCCTTCACAA | TCAGGGCATCA | 144 144 ATCTACAGGG | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC | TCGCTATCG 50 I TGGACAATG TGGACAATG | | |
| Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 | TCAGGGCATCA 1480 | TCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 | | |
| Z15114 M13977 Human clone 28 Z15114 M13977 | GCCTCTTC GCCTCTTC 1460 | TTCCTTCACAA TTCCTTCACAA 1470 | TCAGGGCATCA 1480 ACACATCAGGA | ATCTACAGGG ATCTACAGGG ATCTACAGGG | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 | TTCCTTCACAA TTCCTTCACAA 1470 | TCAGGGCATCA 1480 ACACATCAGGA | ATCTACAGGG ATCTACAGGG ATCTACAGGG | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA | ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG 1490 I TCACTGACT TCACTGACT | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGT | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 | TTCCTTCACAA TTCCTTCACAA 1470 | TCAGGGCATCA 1480 ACACATCAGGA | ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG 1490 I ATCACTGACT ACACTGACT ACACTGACT | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA | ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG 1490 I TCACTGACT TCACTGACT | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGT | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 GTAAGGAGA GTAAGGAGA | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 | TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA | ATCTACAGGG ATCTACAGGG ATCTACAGGG 1490 I TCACTGACT TCACTGACT 1550 I | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGTC TTGGCATGTC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 CCCGGGACGAC | TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 ACACCGCACCT | TETECECCO | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 ITGGCATGTC ITGGCATGTC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 | TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 ACACCGCACCT | TETECECCO | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 ITGGCATGTC ITGGCATGTC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 CCCGGGACGAC | TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 ACACCGCACCT | TETECECCO | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 ITGGCATGTC ITGGCATGTC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG 1520 ACGTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 CCCGGGACGACG | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 AACCCGCACCT | ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCACTGACT ACACTGACT A | CCCCGGACTA | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC ACGTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 CCCGGGACGAC CCCGGGACGAC | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 AACCCGCACCT | TETECECCO | CCCCGGACTA CCCCGGACTA CCCCGGACTA CCCCGGACTA CCCCGGACTA CCCCGGACTA | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC ACGTCTTC | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 CCCGGGACGACG | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 AACCCGCACCT | ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCACTGACT ACACTGACT A | CCCCGGACTA | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG 1520 ACGTCTTC ACGTCTTC | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACG CCCGGGACGACG 1530 CCCGGGACGACGACGACGACGACGACGACGACGACGACGA | TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA AACCCGCACCT AACCCGCACCT | ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCTACAGGG ATCACTGACT | CCCCGGACTA 1 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGTC TTGGCATGTC 1560 CCCCGGACTA CCCCGGACTA 162 | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC ACGTCTTC ACGTCTTC CGGAGATCI | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACA CCCGGGACGACA CCCGGGACGACA ATTGCCTACCAC | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 AACCCGCACCT AACCCGCACCT AACCCGCACCT ACCCGCACCT | ACTUTACEGGGA | CCCCGGACTA 1 ACCTGAAGC ACCTGAAGC 1500 ITTGGCATGTC 1560 CCCCGGACTA CCCCGGACTA 162 | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA 5TAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC ACGTCTTC ACGTCTTC CGGAGATCI | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACG CCCGGGACGACG 1530 CCCGGGACGACGACGACGACGACGACGACGACGACGACGA | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA 1540 AACCCGCACCT AACCCGCACCT AACCCGCACCT ACCCGCACCT | ACTUTACEGGGA | CCCCGGACTA 1 ACCTGAAGC ACCTGAAGC 1500 ITTGGCATGTC 1560 CCCCGGACTA CCCCGGACTA 162 | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA 5TAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 | GCCTCTTC GCCTCTTC 1460 I TGATGCTG TGATGCTG 1520 I ACGTCTTC ACGTCTTC ACGTCTTC CGGAGATCI | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACA CCCGGGACGACA CCCGGGACGACA ATTGCCTACCACAA ATTGCCTACCACAA | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA ACACCGCACCT AACCCGCACCT ACCCGCACCT CCCCTATGGGAA CCCCTATGGGAA CCCCTATGGGAA CCCCTATGGGAA | AGTCTGTCGA | CGGCAGAAA 1 14 ACCTGAAGC ACCTGAAGC 1500 ITGGCATGTC ITGGCATGTC CCCCGGACTA CCCCCGGACTA CCCCCGGACTA CCCCCGGACTA CCCCCGGACTA CCCCCGGACTA CCCCCGGACTA CCCCGGACTA CCCCCGGACTA CCCCCCGACTA CCCCCCGACTA CCCCCCGACTA CCCCCCGACTA CCCCCCCCCC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG 1520 ACGTCTTC ACGTCTTC ACGTCTTC CGGAGATCI 1630 | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACA CCCGGGACGACA CCCGGGACGACA ATTGCCTACCACAA ATTGCCTACCACAA | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA ACACATCAAGA ACACCGCACCT AACCCGCACCT AACCCGCACCT ACCCGCACCT | AGTCTGTCGA | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGTC TTGGCATGTC CCCCGGACTF CCCCGGACTF CCCCGGACTF CCCCGGACTF ATTGGTGGTC ATTGGTGGTC ATTGGTGGTC 670 | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA 5TAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG 1520 ACGTCTTC ACGTCTTC ACGTCTTC CGGAGATCI | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACA CCCGGGACGACA CCCGGGACGACA ATTGCCTACCACAA ATTGCCTACCACAA | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA ACACCGCACCT AACCCGCACCT ACCCGCACCT CCCCTATGGGAA CCCCTATGGGAA CCCCTATGGGAA CCCCTATGGGAA | AGTCTGTCGA | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGTC 1560 CCCCGGACTF CCCCGGACTF CCCCGGACTF CTTGGTGGTC TTGGTGGTC TTGGTGGTC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG 1520 ACGTCTTC ACGTCTTC ACGTCTTC CGGAGATCI 1630 | TTCCTTCACAA TTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG 1530 CCCGGGACGACG CCCGGGACGACG ATTGCCTACCAG ATTGCCTACCAG 1640 1 | TCAGGGCATCA TCAGGGCATCA 1480 ACACATCAAGA ACACATCAAGA ACACATCAAGA ACACCGCACCT ACCCGCACCT ACCCCTATGGGAA | AGTCTGTCGA | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGTC TTGGCATGTC CCCCGGACTF CCCCGGACTF CCCCGGACTF CCCCGGACTF CTTGGTGGTC TTGGTGGTC TTGGTGGTC TTGGTGGTC | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA STAAGGAGA 1570 ACATAGCCC ACATAGCCC CCTTTGGAG CCTTTGGAG 1680 | | |
| M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 M13977 Human clone 28 Z15114 | GCCTCTTC GCCTCTTC 1460 TGATGCTG TGATGCTG 1520 ACGTCTTC ACGTCTTC ACGTCTTC ACGTCTTC ACGTCTTC 1530 TTCTGCTGT | TTTCCTTCACAA TTTCCTTCACAA 1470 GATGCTGAGGG GATGCTGAGGG CCCGGGACGACA CCCGGGACGACA CCCGGGACGACA ATTGCCTACCACAA ATTGCCTACCACAA | ACCCGCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCT ACCCGCACCACCACCT ACCCGCACCACCACCACCT ACCCGCACCACCACCACCACCACCACCACCACCACCACCA | AGTCTGTCGA | CGGCAGAAA 0 14 ACCTGAAGC ACCTGAAGC 1500 TTGGCATGTC TTGGCATGTC CCCCGGACTA CCCCGGACTA CCCCGGACTA CTTGGTGGTC TTGGTGGTC 670 | TCGCTATCG 50 TGGACAATG TGGACAATG 1510 STAAGGAGA 1570 ACATAGCCC ACATAGCCC CCTTTGGAG CCTTTGGAG 1680 | | |

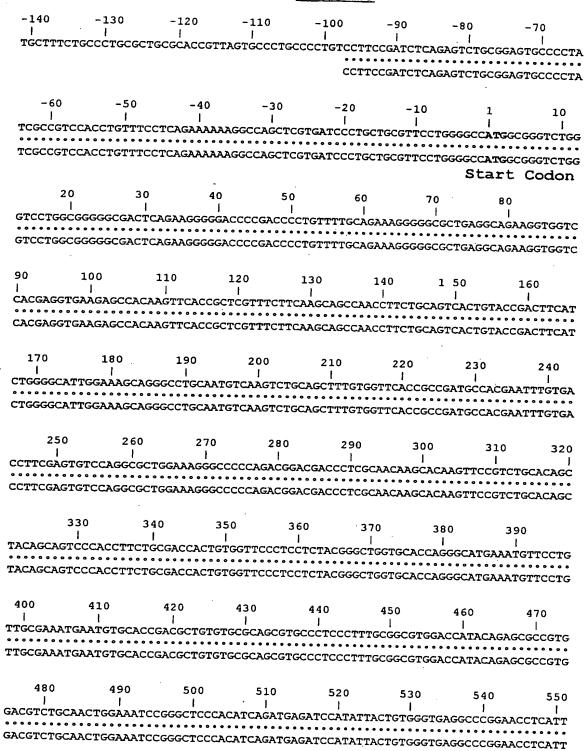
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| | 1690 | 170 | 00 17 | 710 | 1720 | 1730 | 1740 | | |
|------------------------------------|---|----------------------|--------------------------|--|------------------------|------------------------|----------------------|--|--|
| M13977 Human clone 28 Z15114 | AGCTGTT AGCTGTT | TCAGGCCI TCAGGCCI | AAACTGTC AAACTGTC | TCACCTACCCCAAGTCGCTTTCCCGG TCACCTACCCCAAGTCGCTTTCCCGG | | | | | |
| M13977 | | 750 | 1760 ! | 1770 | 1780 | 1790 | | | |
| Human clone 28 Z15114 | AAGCCGI AAGCCGI | GGCCATCT GGCCATCT | GCAAGGGGT GCAAGGGGT | TCCTGACC. | AAGCACCCI AAGCACCCI | AGGGAAGCG AGGGAAGCG | CCTGGGCT CCTGGGCT | | |
| M13977 | 1800 | 1810 , | 1820 ! | 18: ! | 30 <u>1</u> | 1840 | 1850 | | |
| Human clone 28 Z15114 | CAGGGCC CAGGGCC | TGATGGGG TGATGGGG | AACCTACCA AACCTACCA | TCCGTGCA(TCCGTGCA(| CATGGCTTT CATGGCTTT | TTCCGCTG | GATTGACT GATTGACT | | |
| | 1860 | 1870 | 189 | 0 19 | 900 | 2000 ⁻ | 2010 | | |
| M13977 | 1 | Í | 1 | | ł | . 1 | 1 | | |
| Human clone 28 Z15114 | GGGAGCG GGGAGCG | GCTGGAAC GCTGGAAC | GATTGGAGA: GATTGGAGA: | PCCCGCCTC PCCCGCCTC | CTTTCAGA CTTTCAGA | .CCCCGCCC | STGTGGCC STGTGGCC | | |
| | 2020 | 203 | 30 20 | 040 | 2050 | 2060 | 2070 | | |
| M13977 Human clone 28 | | | • | ı | | 1 | 1 | | |
| 215114 | GCAGCGGCGAGAACTTTGACAAGTTCTTCACGCGGGCGGCGCCCAGCGCTGACCCCTC GCAGCGGCGAGAACTTTGACAAGTTCTTCACGCGGGGGGGG | | | | | | | | |
| M13977 | | 2080 | 2090 1 | 2100 | 2110 | 212 | .0 | | |
| Human clone 28 Z15114 | CAGACCGC CAGACCGC | CTAGTCCT | GGCCAGCAT GGCCAGCAT | CGACCAGG | CCGATTTC(CCGATTTC(| CAGGGCTTC | ACCTACG | | |
| | 2130 | 2140 | 2150 | 216 | 0 2: | 170 | 2180 | | |
| M13977 | i | 1 | ŀ | 1 | | I | 1 | | |
| Human clone 28 Z15114 | TGAACCCC TGAACCCC | GACTTCGT GACTTCGT | GCACCCGGA GCACCCGGA | TGCCCGCA TGCCCGCA | GCCCCACCI GCCCCACCI | AGCCCAGTG AGCCCAGTG | CCTGTGC | | |
| M13977 | 2190 | 220 | 0 22 | 10 - : | 2220 | 2230 | 2240 | | |
| Human clone 28 215114 | CCGTCATG CCGTCATG | | c ccceccecc | ACTAGGTG: | rcccaace | FTCCCCTCC | GC CETTEC | | |
| | Sto | p codon | | | | | | | |
| м13977 | 22 | 50 . I | 2260 | 2270 | 2280 | 2290 . I | | | |
| Human clone 28 Z15114 | CGGCGGCAGCCCCACTTCACCCCCAACTTCACCACCCCCTGTCCCATTCTAGATCCT | | | | | | | | |
| • | 2300 | 2310 | 2320 | 2330 | | | | | |
| M13977 | 1 | 1 | 1 | 1 | دے ، ا | 40 4 | 2350 | | |
| Human clone 28 Z15114 | GCACCCCA | GCATTCCA(| GCTCTGCCCC | CGCGGGTT | CTAGACGC | CCCTCCA | AGCGTTC | | |
| | 2360 | 2370 | 2380 | 2390 | | | | | |
| м13977 | 1 | ĺ | 1 | ا | - 44 | 1 | 2410 | | |
| Human clone 28 Z15114 | CTGGCCTTCT | GAACTCC | TACAGCCTC | TACAGCCG | TCCCGCGT | TCAAGACTT | 'GAGCG | | |

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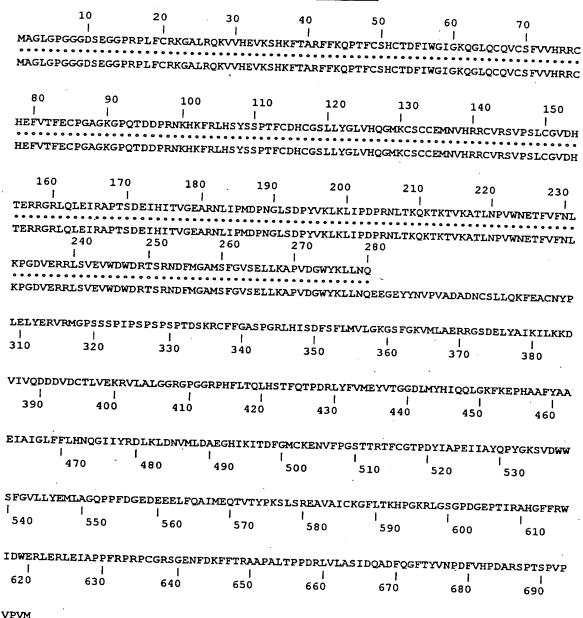
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| | 560 | 570 | 580 | 590 | 600 | 61 | 0 6 | |
|-------------|---------------|---------------------------------------|-----------------|--------------------|----------------|---------------|--------------------|----------------|
| CCTAT | I GGACCCCA | ATGGCCTGTC1 | 1 | 1 | i | i | ٠. | 20 |
| | | ATGGCCTGTCT | | | | | | |
| CCIAT | GGACCCCA | ATGGCCTGTCT | GATCCCTAT | GTGAAACTG | AAGCTCATO | CCGGACCC | ICGGAACCT (| ACAAAAC |
| | _ | | | | | | | |
| 620 | 540 | | | | | | | |
| 630 I | 640 I | 650 I | 660 I | 670 I | 68 1 | - | 590 | 700 |
| GAAGA | CAAAGACC | TGAAAGCCAC | ACTGAATCC | CGTGTGGAAC | GAGACCTT | CGTGTTCA | I CCTGAAGCC | ∣ :GGGGGATG |
| | | TGAAAGCCAC | | | | | | |
| | | | | | | | | GGGGAIG |
| 71 | | 720 | 730 | 740 | 750 | 760 | 770 | 780 |
| | | AGTGTGGAGG | । IGTGGGATTG | GGATAGGAC | ATCCCGAA | ATGACTTCA | .TGGGTGCC3 | |
| | | AGTGTGGAGG | | , | | | | |
| | | | OIGGGAIIG | OGATAGGAC | ATCCCGAA | ATGACTTCA | TGGGTGCCA | TGTCCTTT |
| | 790 | 800 | 810 | 820 | 830 | 840 | 0.5 | • |
| GGTGTC | TCAGAGCT | | 1 | 1 | | | | |
| | | ACTCAAGGCTC | | | •••••• | | | |
| GGTGTC | TCAGAGCT. | ACTCAAGGCTC | CTGTGGATG | GATGGTACA | AGTTACTG | | | TATTACAA |
| | | | | | | Stop | Codon | |
| 860 I | 870 I | 880 | 890 | 900 | 91 | 10 | 920 | 930 |
| TGTACC | GGTGGCCG | ATGCTGACAAC | TGCAGCCTC | I CTCCAGAAG | ا CTTGAGGCC | TGTAATTA | _ CCCTTGGA≥ | |
| | | ATGCTGACAAC | | | | | | |
| | | | | | TIGAGGCC | MITAMIDI | CCCTTGGAA | TTGTATG |
| 940 | 95 | 0 96 | 0 9 | 70 9 | 80 | 990 | 1000 | 1010 |
| AGAGAG | i GCGGATGO | GCCCCTCTTC | CTCTCCCATT | ן פרטיייריירריי | | TCCCNGGG | | |
| | | | | | | | | |
| | CCGGAIGG | GCCCCTCTTC | CTCTCCCATT | CCTTCTCCA | TCCCCCAG | TCCCACGG | CTCCAAGAG | ATGCTTC |
| 10 | 20 | 1030 | 1040 | 1050 | 1060 | | | |
| ምምርራራምር | | i i | 1 | · 1 | 1060 | 1070 | 1080 | |
| | | GGACGCCTGC | | | | | | |
| TTCGGTG | CCAGCCCA | GGACGCCTGC1 | ATATCTCTGA | CTTCAGCTT | CCTCATGG | TTCTAGGGA | AAGGCAGTT | TTGGGAA |
| 1000 | | | | | | | | |
| 1090 | 1100 | 1110 | 1120 | 1130 | 11- | 40 1 | 150 | 1160 |
| GGTGATG | CTGGCAGA | GCGCAGAGGA1 | CCGATGAAC | TCTATGCCA | I TCAAGATA | I TGAAAAAA | GACGTCATT | STCCAGG |
| | | GCGCAGAGGA1 | | | | | | |
| | | | | | - GIONIA | -I GWWWW | JACGTCATT(| FTCCAGG |
| 1170 | 118 | 0 1190 | 120 | 0 12: | 10 1 | 1220 | 1230 | 1240 |
| ATGATGA | TGTAGACT(| GCACCCTTGTG | GAGAAGCGT | 1 | | 1 | | |
| | | · · · · · · · · · · · · · · · · · · · | | | | . | | |
| VIOVI OV. | I GIAGAUT(| SCACCCTTGTG | GAGAAGCGT | GTGCTGGCA1 | TTGGGAGGC | CGAGGTCC | rggaggccgg | CCACAC |
| | | | | | | | | |

| 1250 | 1040 | | | | | | |
|--------------------|-----------------|---|----------------|---------------|-----------------|-----------------|-----------------|
| 1250 | 1260 ! | 1270 I | 1280 | 1290 | 1300 | 1510 | -020 |
| TTTCTCACAC | AACTTCATTCC | ACCTTTCAGA(| CTCCGGACC | CCTGTAT | PTTGTGATGG | AGTACGTCAC | Terecer |
| | | | | | | | |
| | AACTTCATTCC | INCCITICAGA: | -10000000 | CCTGTATT | TTGTGATGG | AGTACGTCAC' | TGGGGGCGA |
| 133 | 0 1340 | 1350 | | | | | |
| 1 | 1 | 1350 I | 1360 | | | | 390 |
| TTTAATGTAC | CACATTCAGCA | ACTGGGCAAG1 | TTAAGGAGC | CCCACGCA | GCATTCTAT | I SCCGCGGAAA | ICGCCATAG |
| | CACATTCAGCA | | | | | | |
| | _ | | 11MOGAGC | CCCACGCA | GCATTCTAT | SCCGCGGAAA1 | CGCCATAG |
| 1400 | 1410 14 | 120 14 | 30 1 | 440 | | • | |
| 1 | | 1 , | 1 | 440 1 | 1450 | 1460 | 1470 |
| GCCTCTTCTT | CCTTCACAACCA | GGGCATCATC | TACAGGGAC | CTCAAGTT | GGATAATGTG | ATGCTGGATG | I CTGAAGGA |
| | CTTCACAACCA | | | | | | |
| | • | | | - Language | GONIANIGIC | AIGCIGGAIG | CTGAAGGA |
| 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | | • |
| . CACATCAAGAT | | 1 | 1 | i | | 1540 I | 1550 |
| 0000000000 | | | | | | | |
| CACATCAAGAT | 'CACAGACTTCG | GCATGTGTAA | AGAGAATGT | TTCCCTG | GTCCACAAC | CCGCACCTTC | тстсссас |
| | | | | • | | | LOIGOGAC |
| 1560 | 1570 | 1580 | 1590 | 1600 |) 161 | 0 162 | n |
| CCCAGACTACA | Tagcacctgac | | | | | | - |
| CCCAGACTACA | | | , | | | | |
| CCCAGACTACA | TAGCACCTGAG | ATCATTGCCTA | TCAGCCCTA | TGGGAAGT | CTGTCGACT | GGTGGTCCTT | IGGAGTCC |
| | | | | | | | |
| 1630 1 | 640 165 | 50 166 | 0 16 | 70 | 1680 | 1690 | 1700 |
| TGCTGTATGAG | ATGTTGGCAGG | , CAGCCACCCT | ا TTGATGGGG | AAGATGAG | GAGGAGCTC1 | | |
| | | | | | | | |
| TGCTGTATGAG | 11011GGCAGGA | CAGCCACCCT | TTGATGGGG | AAGATGAG | GAGGAGCTGT | TTCAAGCCAT | CATGGAA |
| 1710 | 1720 | | | | • | | |
| 1 | 1720 | 1730 | 1740 | 1750 | 1760 | 1770 | 1780 |
| CAAACTGTCAC | CTATCCCAAGTC | ACTTTCCCGG | GAAGCTGTG | I GCCATCTG | ا CAAGGGGTTC | CTGACCAACC | 'ACCCAGC |
| | | | | | | | |
| CAAACTGTCAC | | ACTITECEGG | GAAGCTGTG | SCCATCTG(| CAAGGGGTTC | CTGACCAAGC | ACCCAGG |
| 1790 | 1800 | 1010 | | | • | | |
| ĺ | 1 . | 1810 · | 1820 | 1830 | 1840 | 1850 | |
| AAAGCGCCTGGG | CTCAGGGCCAG | ATGGGGAACC | CACCATCCG | GCTCATGO | , CTTTTTCCG | TTGGATCGAT | TGGGAGA |
| | | ~ | | | | | |
| AAAGCGCCTGGG | | II OOGGAACC(| MCCWICCOC | GCTCATGG | CTTTTTCCG | TTGGATCGAT | TGGGAGA |
| 1860 18 | 70 188 | 3000 | | _ | | | |
| 1 1 | 1 | 1 | | | | | 1930 |
| GGTTGGAGAGAC | TGGAAATTGCG | CTCCTTTTAG | ACCACGTCC | GTGTGGCC | GCAGCGGCG | ı Aaaactttga | I CAAGTTC |
| GGTTGGAGAGAC | | | | | | | |
| | | | | CIGIGGCC | .G.AGCGGG | AAAACTTTGA(| LAAGTTC |

| | | • | FIGU | JRE 9 (CO) | <u>VT)</u> | | |
|-------------------|---------------------|-----------------|---|-----------------|----------------|----------------|-------------------|
| 1940 | 1950 | 1960 | 1970 | 1980 | 1990 I | 2000 | 2010 |
| TTCACGCG | GCAGCGCCA | CCTTGACCC | GCCAGACCG | TTGGTCCTAG | CCAGCATCG | ACCAAGCTGA | TTTCCAGG(|
| | | | · · · · · · · · · · · | CTTGGTCCTAG | | | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | or rediccing | CCAGCATCGA | CCAAGCTGA! | PTTCCAGG(|
| 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | 2080 | |
| CTTTACTTA | TGTGAACCCG | I GACTTCGTGC | ן 'אררראהאידהר | CCGCAGCCCC |) | | |
| | | | | | | | |
| CTTTACTTA | TGTGAACCCG | GACTTCGTGC | ACCCAGATGC | CCGCAGCCCC | ACAAGCCCTG | TGCCTGTGC | CGTCATG |
| 2090 | 2100 | 2110 | 2120 | 2130 | 2140 | 2150 | 2160 |
| I TAATCTCAT | ְ בידפרידפר רברי | The common | | _1 | 1 | | |
| | | | | TCCGCCAAGTT | rggctgtaac | TCCCATCCAC | CCCCATCC |
| TAATCTCAT Stop Co | ctecteccec don | TAGGTGTTCC | CAGTGCTC | | | | |
| 2170 | 2180 | 2190 | 2200 | 2210 | 2220 | 2222 | ٠. |
| | | 1 | . 1 | ~ 1 | | 2230 . | 2240 |
| CGCCTCTAG | rccgaatttt) | AGGTCTCTTA | AACCACCCAA | CCTTCTGGCCT | CTTTCACGC | SCCCCAAGTG | GGTTCTAG |
| 2250 | 2260 | 2220 | | | | | |
| | 1 | 2270 | 2280 | 2290 | 2300 | 2310 | 2320 |
| ACGCTGTTC | CCAGCATTGO | TGGCATTTT | VAACTTCAAA | CAGTCTCTAGA | GCCTTTCTGT | ; GTTCTAGAT | ا TCGTTGTG |
| | • | - | | | | | |
| 2330 | 2340 | 2350 | 2360 | 2370 | 2380 | 239 | 0 |
| CTGAGCCCTG | GTTTTTCCCC | ACCCCAACA | l TCTGGATGC | GTTCCAACTC | TTCCCAGAAA | CCCCACTCC | STGTGGGG |
| 2400 | 2410 | 2420 | | | | | |
| ŀ | Ī | 1 | 2430 | 1 | 2450 | 2460 | 2470 |
| TTCTAGACTC | TATCTTGGTA | GTTTTATGCC | TTCTCTCTCC | CTAGACCACG | rtgggagaaa | TAGTCTCATO | i BAGATTGC |
| | | | | | | | |
| 2480 | 2490 I | 2500 | 2510 | 2520 | 2530 | 2540 | 2550 |
| CTGCTCCAGA | CTAAGATTCC | agatcagete | TCTGCATCCT | TCAAGGCCCC | I CCTACCTCC | ACTTCACTTC | ן תחרב אם בייב |
| | | | | | | | INGAALI |
| 2560 | 2570 | 2580 | 2590 | 2600 | 2610 | 2620 | , |
| AAGTGGGAGG | CTGGGCTCCG | IGTTCCAGGC | CACCጥርርርጥጥ | | CCA MMCCMC | 1 | |
| | | | | CCAIGIICIGG | GGATTCCTG | GCATGCACGG | AGGATTC |
| 2630 | 2640 ; | | | | 680 | 2690 | 2700 |
| | TTTTCTCAGT(| AGCTTTTGT1 | CTAGATTTG | TCCAGAACCC | 'TTC | | |
| | | | | | TICACIGCI | ACCIGCCC | GTGCATG |
| 2710 | 2720 | 2730 | 2740 | 2750 | 2760 | 2770 | 2780 |
| GCTCCAGCCTT | ``GGTCGG33Tc | | 1 | 1 | | | |
| GCTCCAGCCTT | COLCORATO | MUMUMUMUMU | ACACACACAC | CACACACAC | ACACACACA | ACACACACA | CACCCCT |
| 2790 | 2800 | 2810 | 2820 | | | | |
| | 1 | 1 | 1 | 1 | 2840 I | 2850 | |
| TGTCCTCCGCA | GTGCCTGCCA | CTTTCTGGGA | CTTTCTCATO | CCCCACGCCC | TTCCTTTATO | CTCTCCCAC | CCAGACA |
| 2860 2 | 870 2 | 880 | | | | | |
| 1 1 | · | | • | | | | |
| CAGCTGCTGGA | GAATAAATTT | G | | | | | |
| , | | | | | | | |



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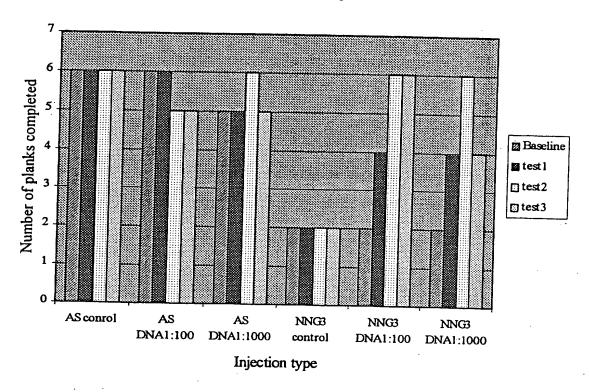
FIGURE 11

AS NNG3

220 —
130 —
90 —
70 —
60 —
40 —
20 —

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FIGURE 12
Inclined Ramp Test - experiment 1



Inclined Ramp Test - experiment 2

